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See Page 64.

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Agents for L. & R.'s Medicines are now established in every town of any importance in England, some of the principal towns in Ireland and Scotland, several of the British Colonies, and India and America. Upwards of 1,400 persons have accepted the Agency, and many have found this branch a profitable auxiliary to their other business.

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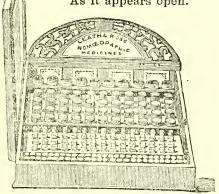
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Contains 28 Bottles of the most useful Homœopathic Medicines, a Guide, giving the treatment of all common complaints, the uses of the Medicines, proper doses, &e. In the lid are the two externals most in use, viz., Arnica and Calendula. It can be fitted to hold either Pilules or Tinetures.

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Sixpenny Tubes, 3/- per dozen.

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& ROSS, LONI

Report of the Judges at the International Exposition, Philadelphia, 1876:
"NOVELTY, GREAT VALUE IN PHARMACY, UNEQUALLED

"NOVELTY, GREAT VALUE IN PHARMACY, UNEQUALLED PURITY, AND SUPERIORITY OF MANUFACTURE."

PETROLEUM VASELINE JELLY.

CAUTION.—It having been brought to our notice—

1st. That certain parties are adulterating our Vaseline with wax, &c.;

2ND. That a spurious article is being offered for sale as Vaseline;

3RD. That Vaseline sent out in jars by Wholesale Houses sometimes becomes impregnated with the dye contained in the coloured paper with which the jars are covered;

We beg to notify the Trade that we are the **Sole** Manufacturers of Vaseline; that the process by which it is made is protected by Letters Patent, which belong to us; and that the word itself, "Vaseline," is registered as our Trade Mark. And in order to maintain the high standard for purity and excellence of manufacture; to prevent the occurrence of any such accident as referred to above; to protect the Trade against adulteration, and to insure their getting the genuine article, we are putting it up in

2-oz. and 4-oz. bottles, and in 1-lb. and 5-lb. tins,

With our Name and Registered Trade Mark stamped thereon.

Every Pharmacist knows that it is impossible to make a satisfactory homogeneous ointment by mixing with a lard which is "grainy." Paraffine adulterations, or imitations of Vaseline, may be distinguished by their odour, taste, and by the grainy or crystalline structure, which is very evident to the eye when compared with the jelly-like smoothness of pure Vaseline.

We beg to call attention to the following Net Price List of our Vaseline Preparations:

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POMADE VASELINE FOR THE HAIR

Bottles, in fancy card cases, 3 sizes, 8s., 16s., and 33s. per dozen; in boxes (wood) of 1 dozen and of $\frac{1}{2}$ dozen.

VASELINE COLD GREAM

REGISTERET

 $\left\{ \begin{array}{ll} \text{Glass Pots, 2 sizes, 8s. and 16s. per dozen; in boxes} \\ \text{of 1 dozen and of $\frac{1}{2}$ dozen.} \end{array} \right.$

VASELINE CAMPHOR ICE

Fancy Paper Boxes, 8s. per dozen; in boxes of 1 dozen.

VASELINE TOILET SOAP

VETERINARY VASELINE . . .

• 1-lb. Bottles, 24s. per dozen; in boxes of $\frac{1}{2}$ dozen.

All the above articles can be obtained of Messrs. Maw, Son & Co., and all Wholesale Houses in London; Messrs. Evans & Co., of Liverpool; Ferris & Co., Bristol; Hatrick & Co., New Apothecaries' Co., and Brown Bros., Glasgow; Mackay & Co., Edinburgh; Clarke & McMullan, Belfast; and of the Manufacturers.

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CHESEBROUGH MANUFACTURING CO. (NEW YORK),
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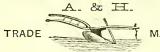
PARIS, 1878.

SILVER MEDAL.

SOLE MANUFACTURERS AND PROPRIETORS OF



PATENT



A.D. 1715.

The merits of these articles have now become widely known. Prepared by this process Jujubes are rendered less adhesive, much brighter in appearance, and may be kept for long periods without change.

TAMARIND BLACK CURRANT GLYCERINE

2/- per lb., or in tin boxes, 6d. size, 4/-; 1/- size, 8/-. All the above Tins are neatly wrapped ready for sale. The One-Pound Tins are returnable at 6 - per dozen.

GLYCERINE, VOICE, TAMARIND (and all other) PASTILLES, 2/2 per lb.

Or in 6d., 1s., and 1-lb. tin boxes, 4/4 and 8/6 per dozen.

CRYSTALLIZED FRUIT PASTILLES......2/- per lb. | CRYSTALLIZED JUJUBES (Mixed).......1/8 per lb. A Sample of any of the above Jujubes, &e., sent free by post if desired.

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The frames are fitted with Glass Shelves, Silvered-glass Backs, and are lettered in Gold, with three Glass Dishes to display three kinds of Jujubes or Pastilles. Price 42/- each. Size, 21 in. high, 10in. broad, and 8 in. deep.

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An Adult's (not an Infant's) Food. The BEST DIET for Invalids. (Excellent for Nursing Mothers; produces ample supply of good Milk.)

From J. CHANNING PEARCE, M.D.—"Brixton Rise, January 16, 1879.— 'James's Daily Food' is very nutritious, easily digusted, and has a salutary effect on the biliary secretious."

From Dr. FAIRBANK, Physician to H.R.H. Princess Christian.—"Windsor, December, 1878.—Easily digestible and highly nutritious. It makes excellent puddings and OMELETTES."

From H. C. BARTLETT, Ph.D., F.C.S.—"Laboratory, 39 Duke Street, Grosvenor Square, November 26, 1878—"James's Daily Food' is composed of the most nutritious Farinas. Possesses special stomachic properties, which render it easy of assimilation, and considerably enhance the dietetic value of its flesh-forming constituents."

From W. EDGAR BUCK, M.A., M.D. (Captab.), M.R.C.P. (London), M.O.H.— School of Cookery, Leicester, November 9, 1878.—1 have examined 'James's Daily Food,' and find it extremely nutritions, satisfying, and digestion. It makes good puddings. It would be an admirable food for persons of impaired digestion, owing to the judicious admixture of stomachies in it. I should be glad to see Leutils more catten, as they are an excellent substitute for meat, and your Food is the best preparation of Leutils 1 have seen."

From WM. STRANGE, M.D., Physician to Wor. General Infirmary and M.O.H.—"1st September, 1878.—A wholesome and GRATEFUL Food. From its composition 1 should say that it is peculiarly suited to the dict of children and persons of weak digestion. Taken in some quantity, it produces a very mild operation of the bowels, which to many will be a great advantage."

From W. ADAMS, Esq., F.R.C.S.—"London, 31st March, 1878.—More nutritious than any with which I am acquainted; forms, with milk, a perfect food for invalids and children, and all adults, as an evening meal.

Every medical man who has examined and tried it has pronounced it far superior to the Revalenta, or any other preparation of Lentils.

Retail of all best Chemists, in Tins at 10d. and 1s. 6d.

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ROYAL LETTERS PATENT.

ARNOLD & SONS'

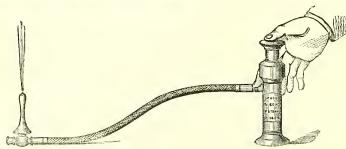
"SIMPLEX" ENEMA.

Suggested by Mr. SHEPARD, MR.CS, &c.

WHOLESALE PRICES.

Patent Simplex Enema, No. 4 Quality, in Metal Case, complete, 3/6.

Patent Simplex Uterine
Douche,
No. 4 Quality,
in Metal Case, complete,
4/6.



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Douche,
No. 4 Quality,
in Metal Case, complete,
6/-.

NOTICE.—Arnold & Sons, at the suggestion of several leading members of the Profession, have introduced a cheap form of their Patent "Simplex" Enema, which will be found to supersede all other Enemas. It is acknowledged to be the most simple, durable, and effective instrument yet introduced.

Vide "The Lancet," Aug. 17th, 1872; "British Medical Journal," June 22nd, 1872; "Medical Times and Gazette," June 22nd, 1872; "Medical Press and Circular," June 26th, 1872.

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TRADE Ball denotes



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All Colours in 1, 2, 4, and 7 lbs.

VARNISHES OF ALL SORTS IN TINS OF ALL SIZES.



LOW'S FRENCH EXTRACTS, &c., viz. :

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				pe	r lb.	1				pe	r lb.				per lb.
Ext.	Cassie	•••		• • •	9/6	Ext.	Rézéda	•••	•••	•••	9 6	Ext.	Tubereuse	•••	9 6
,,	Jasmin	•••	•••	•••	9/6	,,,	Rondelet	tia	•••	•••	8/-	"	Violet	•••	15/-
,,	Jonquil	•••	•••	•••	9/6	,,,	Rose		•••	•••	9,6	,,	Verbena	•••	8/-
,,	Lily of	the V	alley	•••	9/6	,,	Rose Ge	raniu	$_{ m im}$	•••	9/6	,,	White Rose		10/6
,,	Magnoli	a	•••	•••	9/6	,,	Spring E	lowe	rs		9 6	,,	White Lilac	• • •	9/6
"	Orange	Flow	er	•••	9,6	,,	Stephan	otis	•••	•••	9/6	,,	Wood Violet		13,6
,,	Patchou	li	•••		9/6	,,,	Sweet B	riar	•••	•••	9/6	,,	Wild Rose	•••	9/6
,,	Queen o	f the	Alps		9/6	,,	Tea Ros	е	•••	•••	96	,,	Ylang Ylang		9,6
	A.	RE	NO	W	\mathbf{R}	ED	UCED	II	V	PRI	CE	, A	S ABOV	$T\mathbf{E}$.	

These Extracts have always had the highest reputation; they are all of our own manufacture, are guaranteed pure and of triple strength, and will compare favourably with any in the trade.

N.B.—Owing to the failure of the VIOLET crop, however, this Extract is advanced in price, and will probably go higher still. Purchasers are warned against the spurious Ext. Violets already in the market.

FAMILY BROWN WINDSOR SOAP.

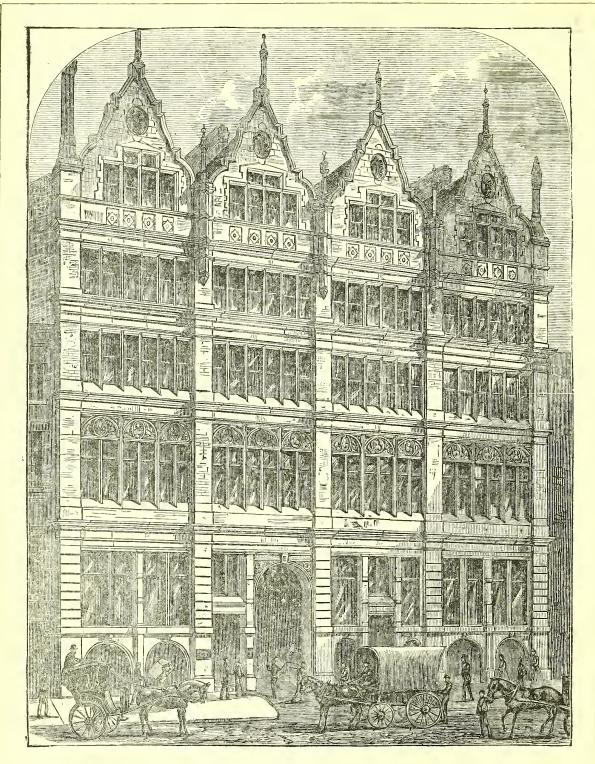
At 60/- per cwt., Genuine, and sweetly perfumed.

This Soap is recommended to the Trade as the best value that can be obtained. Embossed Squares, 6 to lb., and in 14-lb. Boxes.

CASH DISCOUNT, 10 PER CENT.

R. LOW, SON & HAYDON,

Perfumers, Toilet Soap Makers, and Brush Manufacturers, 330 STRAND (SOMERSET HOUSE) LONDON.



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S. MAW, SON & THOMPSON'S

NEW

SHOW ROOMS

ARE NOW OPEN,

CONTAINING COMPLETE SAMPLES OF ALL KINDS OF

DRUGGISTS' SUNDRIES,

SURGEONS' INSTRUMENTS, &c.

SURGEONS' INSTRUMENTS, ETC. - - - GROUND FLOOR.

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SPONGE ROOM - - - - - - THIRD FLOOR.

Open from 9 a.m. to 6 p.m. A Visit is Solicited.

7 TO 12 ALDERSGATE STREET, LONDON.

COPY

TRADE MARKS' REGISTRY OFFICE: London, 4th May, 1878.

FRANCIS JONATHAN CLARKE, Esq.

SIR,—I have to inform you that, pursuant to Rule 21 under the Trades Marks' Registration Act, 1875, the Trade Marks applied for by you in application No. \(\begin{cases} \frac{3,270}{3,272-3-4-5} \end{cases}, and duly advertised in No. 20 of the Trade Marks' Journal, have been registered in your name in class 3.—I am, sir, your obedient servant, H. HEADER LACK, Registrar.

Mem.-3,275 is the number of Mr. F. J. Clarke's Trade Mark, "BLOOD MIXTURE."

CHANCERY.

LORD CHANCELLOR. VICE CHANCELLOR MALINS. 1873. C. No. 109. Between FRANCIS J. CLARKE, Plaintiff, AND

GEORGE CLARKE, Desendant.

CAUTION.

WHEREAS, the Vice-Chancellor, Sir Richard Malins, on the 21st day of July, 1873, upon the application of Francis J. Clarke, of High Street, in the City of Lincoln, Chemist, the plaintiff in the above suit, awarded a perpetual Injunction, restraining the defendant, George Clarke, of Manchester, his servants and agents, from using the words "Blood Purifying Mixture," or any other imitation or colourable imitation of the Plaintiff's Trade Mark, "BLOOD MIXTURE," in or upon any bottles offered for sale by or for the defendant, or on any labels, handbills, or advertisements printed, used, or issued by or for the defendant, and from in any other way representing any medicine, compounded by or for him, to be "Blood Mixture," and from doing any act or thing to induce the belief that medicine compounded by or for the defendant, is "Blood Mixture," or a medicine compounded by the plaintiff.

medicine compounded by the plaintiff.

And it was Ordered, that the defendant, at the request of the plaintiff, and in the presence of some person to be appointed by him for that purpose, destroy all wrappers, handbills, bottles, advertisements, and circulars in the defendant's possession, or under his control, containing the plaintiff's said trade mark, or any colourable imitation thereof.

ALL PERSONS ARE THEREFORE CAUTIONED against purchasing, selling, exposing for sale, or otherwise dealing in any medicine purporting to be "Blood Mixture," not compounded by the plaintiff, Francis J. Clarke, in bottles or wrappers, or with other accompaniments bearing facsimiles or fraudulent or colourable imitations of those invented and used by the plaintiff, the said Francis J. Clarke. Retail dealers, as well as manufacturers, are equally liable.

Dated this 28th day of July, 1873.

H. K. HEBB, Plaintiff's Solicitor, Lincoln.

CAUTION.-PUBLIC APOLOGY.

CHARLES MONTAGUE CLARKE, do hereby acknowledge that I, under the SPURIOUS title of Doctor of Medicine, have illegally infringed and pirated your Trade Mark, "BLOOD MIXTURE," and copied your advertisements, labels, handbills,

and "Caution," with intent to deceive the public.

And I, GEORGE HERBERT CLARKE, of 130 Shorepitch, London, do hereby acknowledge that I, under the title of Pharmaceutical Chemist, have prepared and sold for the said Charles Montague Clarke a certain compound called Blood Renovator. Now we, the said Charles Montague Clarke and George Herbert Clarke, do hereby, in consideration of your consenting to offer no evidence against the said George Herbert Clarke on a TRUE BILL FOUND AGAINST HIM, under the Merchandise Marks Act, by the Grand Jury of the Middlesex Sessions, on the 6th day of October instant, undertake and agree to discontinue such practices, and to hand over to your Solicitor forthwith all wrappers, handbills, advertisements, circulars, and bottles containing the stuff, in our power or control, relating to the said spurious compound called "Blood Renovator," and we CHARLES MONTAGUE CLARKE. humbly apologise for having resorted to such practices,

GEORGE HERBERT CLARKE. SIGNED by the said Charles Montague Clarke and George Herbert Clarke, on the 13th of October, 1874, in the presence of HENRY BULL, Clerk to Mr. J. Seymour Salaman, 12 King Street, Cheapside, Solicitor to the Trade Mark Protection Society. To Mr. F. J. Clarke, Lincoln, Proprietor of Clarke's World-Famed Blood Mixture.

CAUTION.—Mr. CLARKE will take immediate proceedings against all persons pirating his Trade Mark—"BLOOD MIXTURE" (fully protected under the Trade Marks' Registration Act of 1875), Labels, Wrappers, Bills, or Advertisements, or in any way infringing his rights.

TRINE

(REGISTERED).

A new preparation PERFECT as a BASIS for OINTMENTS, of admirable consistency, bland, emollient, antiseptic, and healing.

- "Moderate in price, and deserving a careful trial,"—BRITISH MEDICAL JOURNAL,
 "A valuable and use'ul substance and will in all probability be very largely used."—MEDICAL TIMES AND GAZETTE,
 "Will take a high position among our other pharmaceutical preparations."—MEDICAL PRESS AND CIRCULAR.
 "Likely to prove useful as a dressing for wounds and excertations,"—PlactTHOMER.

OZOKERINE is a clear, pale yellow, very slightly fluorescent body, composed of hydrocarbons akin to Paraffine in their chemical characters. It is produced from Ozokerit, or Earth Wax, by the separation of lighter and denser hydro-arbons, and subsequent purification by processes which remove smell and taste, and yield it in the pleasant form which has already gained for it a preference before other similar bodies.

OZOKERINE has been used with remarkable success as a simple dressing for wounds, its mild and healing properties rendering it peculiarly grateful to the patient.

OZOICERINE is unsurpassed as an unquent basis; unchangeable in itself, except by the action of the most powerful chemical agents, it preserves other bodies with which it may be incorporated from all tendencies to decomposition. The superiority of Ozokerine to lard in this respect cannot be over-estimated.

OZOKERINE, in addition to the above advantages possesses that of being moderate in price, which marks it out as a preparation destined to supersede all other articles hitherto used for similar purposes.

Each Tin is stamped on the lid with the words "FIELD'S OZOKERINE, REGISTERED."

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PRELIMINARY AND MINOR EXAMINATIONS.—
STUDENTS prepared BY CORRESPONDENCE. "NO PASS,
NO PAY." Enclose stamped envelope to "TUTOR," care of Mr. Filtness,
Rotherfield. "Minor" Students supplied with all necessary specimens free.
Forty-seven out of fifty-one pupils passed the last Preliminary.

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THE BANK OF ENGLAND. (Where the Current Funds and Securities of the Bank are deposited.)

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MESSRS. MOORE & WALLIS, 3 CROSBY SQUARE, E.C. F. WHINNEY, ESQ. (Messrs. Harding, Whinney & Co.), 8 Old Jewry, E.C.

The Directors will be glad to receive proposals from Chemists who are willing to accept Agencies for the sale of Cheque Bank Cheques in place of Money Orders as Postal remittances, especially places where the Bank has at present no representative. Besides being paid a commission on sales, the business of the Agent is benefited by advertisement.

LISTS OF AGENTS POST FREE ON APPLICATION.

THE CONDY'S FLUID Co., FALCON ST., E.C. THE COMPOSITION.

In contradiction to the extraordinary statement made by Mr. Condy that "GENUINE CONDY'S FLUID IS NOT AND NEVER WAS COMPOSED OF PERMANGANATE OF POTASH," The Condy's Fluid Co. insist that Genuine Condy's Fluid (Crimson) IS and SHOULD BE composed of Pure Permanganate of Potash, in accordance with the Patent Specification and the principal Medical and Chemical authorities, as well as with the declarations of composition issued by the late Bollmann Condy partnership firm, wherein the description ran as follows: —"Condy's Fluid (Permanganate of Potash)... Permanganate of Potash (Condy's Fluid) . . . H. B. Condy."

THE CONDY'S FLUID CO., FALCON STREET, E.C., maintain the following Reductions in the Trade Prices of their genuine articles, which can always be relied upon as being of full strength and perfect purity:-

CONDY'S PATENT FLUID (Crimson), 1s. size, 6s. per doz.; 2s. size, 12s. per doz.; 4s. size, 24s. per doz. CONDY'S PATENT OZONISED WATER, 2s. size, 12s. per doz.; 3s. 6d. size, 20s. per doz.

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THE CONDY'S FLUID CASE.

DEFEAT FINAL of MR. BOLLMANN CONDY. FAILURE AND EXPOSURE OF THE "TRAP TO CATCH CHEMISTS."

> COURT OF APPEAL, LINCOLN'S INN, Nov. 27, 1877. CONDY v. MITCHELL.

LORD JUSTICE JAMES (without needing to hear defendant's connsel) said—That such a suit should have been instituted at all was very remarkable; but that, after the learned Vice-Chancellor's judgment, this appeal should have been brought on was particularly strange. Dr. Mitchell had obtained his right by payment of a substantial money consideration, and Condy's Fluid and Condy's Oconised Water were as much his Property as the Plaintiff's. Having that right, Dr. Mitchell was entitled to set up the Condy's Fluid Company.

LORD JUSTICE BAGGALLAY was of the same opinion. The style of the partnership had been "Bollmann Condy & Co.," and the plaintiff set up in his own uame of "H. Bollmann Condy." It was not necessary to consider whether he might have been restrained from so doing; but he came into court with a very bad grace. To get evidence HE HAD RESORTED TO WHAT WAS, IN FACT, A TRAP TO CATCH CHEMISTS.

LORD JUSTICE THESIGER was also of that opinion; and especially as to the character of the plaintiff's evidence. A good deal of it seemed to him not admissible at all

LORD JUSTICE JAMES: APPEAL DISMISSED WITH COSTS.

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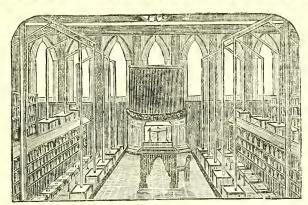
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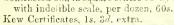
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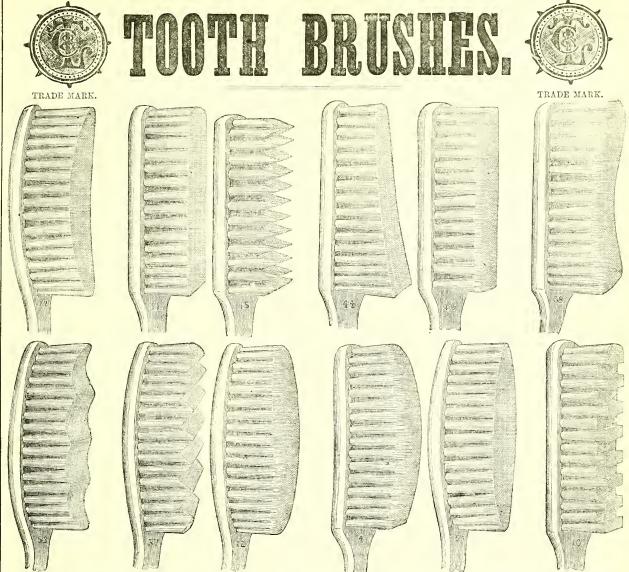
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Epilepsy being considered incurable by most medical men, we would call your special attention to this medicine, which has proved a cure in many cases, and in none failed to give relief. If, therefore, you know any one in your town who suffers, and will kindly interest yourself in the matter,

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Will forward you a SAMPLE BOTTLE FREE to any London House; and your future recommendations, when you have proved its efficacy, will be esteemed. A few descriptive handbills can be sent with it, for your distribution, if desired.

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For Cleaning and Oiling Sewing Machines,
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It keeps them in good order and makes them work easy. Will last longer than any other Oil, and does not dry or corrode.

A little of this upon the working parts will clear away the clogged oil and dirt caused by using common oils.

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LAMBERT'S BICYCLE OIL,

Equally useful for Bicycles and Light Machinery.

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Which have been in use upwards of 70 years, are a medicine that can be safely recommended by all Medicine Vendors as a mild and effectual aperient for both sexes. They never cause griping. They are useful for all Bilious and Liver Complaints, Indigestion, Wind, Spasms, Foul Breath, Nervous Depression, Irritability, Lassitude, Loss of Appetite, Dyspepsia, Heartburn, Sour Eructations, Lowness of Spirits, &c.

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We beg to inform the Trade that we have appointed Messrs. W. EDWARDS & SON, 157 Queen Victoria Street, Special Agents in London for the supply of MISS PIKE'S FIT POWDERS and WM. SCHWEITZER'S PREPARATIONS to the Wholesale and Trade generally, and shall always hold a large Stock of the undermentioned:—

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The advantages of this Sea Salt are—

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All kinds of Chemists' Stock and Fixtures valued. Partnerships arranged. Particulars of different classes of Businesses torwarded to Buyers.

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LEICESTER —Light retail and Prescribing in a good class and improving district; rentlow; good shop and house; owner retiring; returns over £400; for £270.

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FIRST-CLASS RETAILS returning £800 to £1,300 for sale privately in North, South, and West.

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A FIRST-CLASS Family and Dispensing Business; esta-A blished 20 years in a fashiouable watering place; the residents of the locality are the merchant princes of Liverpool; the population is about 20,000, with but two other chemists in the place; fitted up in a very superior style, and one of the handsomest shops in England; large house with all modern conveniences, and quite private from the shop.

THREE MILES from LIVERPOOL, a neat, compact, light Retail and Dispensing Business; pleasantly situated; good house at low rent; an excellent opening for a person of limited capital.

A FAMILY AND DISPENSING: established 30 years; pleasant locality; large house; beautifully fitted; corner shop.

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A number of Businesses, in amounts from £100 to £1,500.
All information on application. Parties applying for the first time will please to send reference to ensure a reply.

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No Commission charged to Furchasers.

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A Drug Business in the Potteries. Established 20 years. Returning £1,000 per annum, for £650.

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A Shop in Birmingham. Just re-fitted. Fixtures, Bottles,
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Business in Birmingham. Established 15 years. Has done in good times £12 per week. Prico £330.

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R. HINE GILBERT may be consulted every morning from 10 till 2 o'clock on all matters of Sale, Purchase, or Valuation.

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I .- SUBURBS OF TOWN, a really profitable and increasing concern; the outgoings are extremely moderate, and the profits large; price about £500; part might remain.

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2.—ANOTHER, with excelent noise; in pleasant locality; realising a good living; for £250.

3.—COUNTY TOWN; for cost of fittings about £500; the trade is high class and of a most profitable description; a man with capital required.

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with uo opposition, and a low sum will be taken.

5.—SCARBOROUGH.—£200 will secure possession of best position in this the Queen of Watering Places; opposite Spa, Aquarium, and Grand Hotel; owner retiring.

6.—SEASIDE, South, excellent investment for £400, for a business returnments 6.

6.—SEASIDE, South, excement investments for 2000, for a distinct retailing uearly £800; held on good lense.
7.—LONDON, elaborately fitted and modern retail for sale; £150 with good references would purchase this.

Many others in all parts of England upon application.

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A GOOD RETAIL AND DISPENSING BUSINESS, mixed not objected to, returning from \$1,000 to \$1,500 A to, returning from £1,000 to £1,500; no agents; strict secresy observed. Address, with full particulars to "Bona Fide," care of Messrs. Davy, Yates & Co., 64 Park Street, Southwark, S.E.

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 \mathbf{A} GOOD MIXED TRADE; First-class fixtures; populous neighbourhood, within 15 minutes' walk of Manchester Exchange; returns over £1,000. Apply to C. Blakeway, 96 Deansgate, Manchester.

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TO CHEMISTS.—For immediate Disposal, a very old-established country Business, doing a considerable trade. Terms of Mr. J. C. Collier, Agency Offices, Godalming.

IVERPOOL, the Exchange Pharmacy.—To be Disposed of, one of the best-paying Dispensing Businesses, proprietor retiring from town. Apply to Edwin G. Heaton, as above.

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FOR DISPOSAL, one of the oldest established Druggist and Grocery Businesses at Bolton, Lancashire; the present proprietor leaving the trade; full and satisfactory reasons for giving up. Apply, R. Heap, 98 Deansgate, Bolton.

A GENUINE, Retail Dispensing and Prescribing Business, in a populous neighbourhood South of London, doing nearly £5 a-week; rent very low; shop nicely fitted and stocked; full prices; lowest price £100. Apply to A. Gabriel & Troke, Wholesale Druggists, 82 City Road, London.

MMEDIATELY, an old-established Retail and Dispensing Business in the East End of London, returning about £300 per aunum; rent £30. Address, by letter only, E. G., care of Messrs. Barron, Squire & Co., Bush Lane, Cannon Street, E.C.

MMEDIATELY, a gennine Retail and Prescribing Business, in a thickly-populated neighbourhood, near Docks; house 6 rooms; rent, on lease, £30; returns over £250 a year; reason for selling, bought larger business. Letter for address, "Statim," 59 Malmesbury Road, Bow, E.

MMEDIATELY, for Disposal, an Old-established Chemist's aud Druggist's Business; handsome double-fronted shop; good fixtures, stock, lease, &c., £275; in the S.W. District, Surrey side. Apply personally or by letter, Mr. W. Baxter, Central Public Laboratory, Kennington Cross, S.E.

CAPITAL WANTED, about £5,000, to take a business of 50 years' stauding; full security and good interest; or partnership might be arranged. Address, P. L., 515, Messrs, Deacon's Advertisement Office, 154 Leadenhall Address, P. Street, E.C.

BIRMINGHAM.—Chemist's Business for Disposal; Braneb Shop; rent £24; returns £7 and £8 weekly; under assistant's management; goodwill, fixtures, and utensils, £80; stock optional. Address G. B. Toy, Perry Bar, Birmingham.

A GENUINE Dispensing, Prescribing, and Retail Business, in one of the best suburbs and most busy thoroughfares of Mancbester; returns, £500, capable of great extension.

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OR DISPOSAL, an old-established Mixel Chemist's country Busines Which has been successfully carried on by the present proprietor for over eleven years; incoming about £300; full particulars and satisfactory reasons for selling. Apply, "Bond-fide," Messis, J. & S. Parsons, Victoria Chambers, High Street, Bristol.

OR DISPOSAL, an old-established Drug Business, in principal thorough-For DISTOSAL, an one-standard Drug Business, in pinterpar tolorogy-fact of one of the largest towns in Lancasthir, returning under present nanagement ES 0 a-year; arrangements would be made for half purchase money to be pild by instalment. Address, "Hydrogen," Office of The Chemist and Directors, 44A Cannon Street.

PANSGATE.—A small but good-class Ensiness, light factail and Dispensing; well situated, with convenient house, suitable for a family, on lease; the proprietor having a dental practice in another part of the town, is retning from the trade; returns £100, could be considerably increased unacc principal. Address, "Denti-t." 120 High Street, Ramsgate, Kent.

DUMINGHAM.—For Disposal, a capital retail and Dispensing Ensiness, more of the best thoroughtares, with post office attached, now under Management, returning over £600 per annum; rent o by £ 0; an excellent opportunity for an energetic man. Applications to 888, Wyley & Co. s. Coventry

WHOLESALE Druggist Sundry Business for Sale; one or two persons with capital sufficient for Sundries, Patent Medicines, and Proprietory Goods, would monopolise the trade of Eurningham and Midland Counties. For particulars, apply to the proprietors, Pare Bros. & Co., 5 Burlington Passage, Burningham.

CHEMIST'S, Stationer's, and Grocer's Business for Sale, at once; good reasons; old-established concern, successfully carried on for years; in centre of town; goodwill, fixtures, utensils, and part of stock, price £150; capital opportunity for a qualified Chemist. Apply to R. Saladon, Dulverton, Somerset.

THE PROPRIETOR of an Old-established Business, situated in a busy Liverpool thoroughfare, Dispensing, Prescribing, and general Retail, desires to Sell, on account of the effluxion of time; being the owner of the premises, he could lease on advantageous terms to a suitable person; returns about £800. Andress, "Ferri." R. Sumner & Co., Lord Street, Liverpool.

IMMEDIATELY, in consequence of the death of late Proprictor, au Oldestablished and gennine Retail, in a good thoroughfare leading to the City; house very commodious, and all newly done up; shop well stocked and nicely fitted; lease, 10% years; rent, £75; average returns, £691; no agents. X., 49 Berners Street, W.

FOR DISPOSAL. -An Old-established Business in one of the most rising seaports on the Northumberland coast; returns, about £700; price, about £450; to anyone accustomed to a mixed trade this is an opportunity that seldom occurs. For address, apply by letter to "Chemicus," 21 Bentinek Street, Newcastle-on-Tyne.

FOR IMMEDIATE DISPOSAL, an Old established Business of a Chemist and Druggist, in a manufacturing town in Yorkshire; returns, about £4,000, including several valuable proprietary medicines; business capable of being considerably increased; present proprietor retiring on account of ill-bealth. Apply to Langton, Edden, Hicks & Clark, 232 Upper Thames Street, London.

MEDICAL HALL for Disposal, situate in a large provincial town in Ireland; average receipts £700 per annum, £100 of which would be secured to purchaser; the house is held on lease, and requires no outlay, the shop being newly fitted, and complete in every respect; a desirable investment for a chemist; premium moderate. For terms and further particulars, apply to E. H. Croghan, L.A.H., Professional Agency Office, 142 Capel Street, Dublin.

Por DisPosal, a Mixed country Business, established over 100 years, situated in the West of England; returns over £2,000; nct profits from £500 to £700; rent £50, long lease; will be sold by valuation of stock and fixtures, and one year's profit as goodwill, or by one lump sum, as may be decided upon; no one need apply who cannot command over £2,000; this is a bona fide thing, and seldom to be met with. Apply to "Chemist," M. J. Hampton's, Heath Cottage, West Bromwich, Staffordshire.

OR DISPOSAL, in one of the best business thoroughfares of the city of York, a well-known and old-established Business of upwards of years; standing; has been in the occupation of present owner more than 30 years, who is only retiring on account of declining health; this is an opportunity seldom to be met with; goodwill required, stock and fixtures to be taken at valuatiou. For rent, and further particulars, apply, T. S., 16 St. Saviourgate, York.

MMEDIATELY, in consequence of the proprietor taking a larger concern, a genuine ready-money Dispensing, Light Retail, and Prescribing Busiuess, in a rapidly improving part of the town, double-fronted shop, leading thoronghare, commanding an undeniable and healthy situation; ample seope for dentistry; long lease if required; several good proprietary articles; returns last year about £440; must be sold. Apply, "Chemist," Messrs. Pare Bros. & Co., Burlington Passage, Birmingham.

POR DISPOSAL, the Business of a Retail Chemist and Druggist, doing a Mixed trade, ready money; established 1828; situated in a busy leading thoroughtare in a large maunfacturing town in the West Riding of Yorksbire; the premises are large and couvenieut, suitable for carrying on Wholesale and Retail, or for preparing Proprietary articles; stock and fixtures at a valuation, about £400, but could probably be reduced; the proprietor, who is retiring in consequence of continued bad health, is owner, and will grant a lease. For further particulars, address B. W., care of Messrs. Herrings & Co., Aldersgate Street, London.

EMPLOYERS WANTING ASSISTANTS.

MORRIS BANKS & CO., Bull Ring, Birmingham, require a competent Assistant, with Mmor qualification at least; applicants must give good references, and say salary required.

NVOICE CLERK Wanted; must write a good hand, and thoroughly understand Book keeping. Apply, by letter, to Lorimer & Co., Chemical Works, Junction Road, N.

WANTED, a steady Young Man, as Junior Assistant, in a country town, to a General Business of a Chemist and Grocer; state salary required, and particulars. Apply to J. Peace Jones, Chemist, Talgarth.

MMEDIATELY, Junior Assistant, speaking French; out-door; no Sunday duty. Apply personally to L. Schonver, Chemist, Princes Street, Hanover Square, London.

A GOOD JUNIOR ASSISTANT, or Improver, of good address, able to Dispense and Extract Teeth; hours 8 A.M. to 9 P.M. Apply, personally if possible, to Mr. Clurehill, Pharmaceutical Chemist and Dentist, Lower Norwood, S.E.

WHOLESALE DRUG TRADE.—Wanted, an active Man as Head at the Wet Counter; must have a thorough knowledge of the business. Apply, stating age, references, salary expected, &c., to K 54, care of Henry Greenwood, Advertising Agent, Liverpool.

ABORATORY.—Wanted, a Working Assistant for the Mannfacturing Department of a Pharmaceutical and Chemical Laboratory in London; applicants not auswered in ten days may be considered declined. Apply, by letter, to A. H., 66 Queen Street, Cheapside, E.C.

WANTED, a steady respectable Young Man, aged about 20, as Chemist's Assistant, in a country town, to a Mixed business, with Wines and Spirits. Apply, stating salary and references, to Wm. Merry, Market Place, Ilkeston, near Nottingham.

DRUG AND DENTISTRY BUSINESS.—Wanted, an Assistant, to Manage a Branch; must hea good Practical Dentist; none need apply whose character will not bear investigation. Address, J. T., Mr. Wm. Mather, 84 Corporation Street, Manehester.

WANTED, the first week in July, an Assistant aged about 22; must be accustomed to a General Country Trade, and a good Dispenser.

Apply, stating salary required and all particulars, to W. H. Stanway, 7 High Street, Kington, Herefordshire.

APPRENTICES WANTED.

WANTED, an Outdoor Apprentice; hours 8 a.M. to 8 p.M.; time allowed for study. Particulars as to premium, &e., from the Manager, South London Homeopathic Pharmacy, 122 Newington Canseway, S.E.

A VACANCY occurs for an Apprentice in an old-established Pharmacy, where a thorough knowledge of the business might be obtained. Address, G., care of Messrs. Barclay & Sons, 95 Farringdon Street, E.C.

A QUALIFIED DENTIST, in good West-end practice, has a Vacancy for a Pupil, non-resident; moderate premium. H. Laurence, L.D.S., 64 High Street, Notting-Hill Gate, W.

WANTED AN APPRENTICE, iu an increasing Retail and Dispensing Business in the West of England; every opportunity of learning the Business; references given; premium moderate. A. E., Office of The Chemist and Directors, 44a Camon Street, E.C.

ASSISTANTS WANTING SITUATIONS.

 ${
m A^s}$ ASSISTANT or MANAGER, in town or country; registered. W. $^{\circ}$ 6 Princes Square, Kennington Park, London, s.E.

 ${
m A}^{
m SSISTANT};$ temporary or permanent; aged 28; good elass. F. B. Theobalds, Hertforl, Herts.

OCUM TENENS, Assistant, or Working Partner; Minor qualification; could Manage a branch; excellent reierences. B. M., Edwards, Chemist, Brighton.

MANAGER, Associate, and Dentist; married; town and country experience; satisfactory references. X. Advertiser Office, Stony Stratford.

JUNIOR.—2½ years' experience; aged 18; height, 5 feet 8 inches; firstelass reference. Addresss, S. E., care of Messrs. Hearon & Co., 5 Colman Street, E.C.

AS MANAGER, or similar position; aged 46; good reference and experience; town or country; for a time or permanency. S. T., Office of The Chemist and Druggist, 44a Cannon Street, E.C.

AS ASSISTANT; accustomed to Dispensiug, Snipping, and Mixed businesses; aged 25; extracts teeth. J. B., 21 North Luton Place, Monmouth, Cardiff.

WANTED, an Engagement as Outdoor Assistant or Manager of a Branch in a Mixed Business; married; aged 30. C. Campbell, Collyburst Post Office, Manchester.

A FOREIGN GENTLEMAN (aged 24) requires an Engagement, either Wholesale or Retail; well up in English Retail; salary moderate; first-class references. T. L., 116 Murray Street, N.

WHOLESALE.—Traveller, with good and safe connection in North and Midlands, is open to Re-engagement with Drng or Draggist Sundry House. "Traveller," Mr. H. C. Thompson, Stationer, Magdalen Street, Norwich.

WANTED, Situation as Assistant Chemist, Chemist and Dentist, or Dentist, in or out door; aged 30; height, 5 feet 10 inches. Address, "Molar," care of W. Fletcher, Penley, Ellesmere.

A PHARMACEUTICAL CHEMIST can recommend for a permanency, as outdoor Assistant, or to Manage a hranch; a steady, honest, and pushing young man, married. "Pharmaceutical," Messrs. Raimes & Co., York.

WHOLESALE DRUGGISTS.—A Gentleman, who has represented two well-known Drug Honses, is open to Re-engagement as Traveller; first-class references; good salesman. "Rhei," eare of Messrs. Smith & Sons, Wholesale Druggists, Norwich.

WANTED, the Management of a Business by an experienced and registered Chemist; a Situation as Permanent or Temporary; a thorough knowledge of the Veterinary business; country town preferred. Apply, "Northumberland," Office of THE CHEMIST AND DRUGGIST, 44A Cannon Street.

MISCELLANEOUS.

A GOOD CHEMIST, seeking an Opening for Commencing a Homosopathic Business, on easy terms, is requested to communicate with M., care of E. Gould & Son, 59 Moorgate Street, E.C.

TO CHEMISTS and DRUGGISTS.—The Stock and Fittings of a Retail Chemist's Shop to be Dispo-ed of at once, on very reasonable terms. Apply to Messrs. Lney, Marlborough.

HITCHIN, HERTS.—To be let, at Midsummer next, a capital plate glass fronted shop (15 feet by 18), good premises and house attached, in Sun Street, Hitchin; at present occupied by Mr. Kershaw, chemist, who is giving up business, from whom may be obtained all particulars; stock and fixtures at valuation.

A SODA-WATER MACHINE to make 1,000 doz. per day, with gas works, corking rack, dial, an i water ganges, 2½ horse-power horizontal steam engine, with 3 horse-power vertical boiler, with all mountings; second-hand, as good as new. Particulars of N. G. Wileocks, Bath.

TO LINT, &c., MANUFACTURERS.—To be Disposed of, the Plant, Utensils, and Stock-in-Trade of an excellent and well-established Business, situate No. 22 John Street, Netherfield Road North, Liverpool. The premises are well adapted for doing a large and lucrative trade, having 27 looms, worked by steam power. Rent £100 per annum. Apply to Roose & Price, Aeconntauts, 26 North John Street, Liverpool.

SOUTH LONDON SCHOOL OF PHARMACY. TO TICE. The Silver Medal of the Institution will be competed for imme-

The Silver Medal of the Institution will be competed for immediately after the Pharmaceutical Society's examinations in July. Students eligible to compete are the holders of Bronze Medals presented to them in December and April last, whose names will be received up to July 2; while the successful Bronze Medallists at the school examination in July can send in their names one day after presentation.

W. BAXTER, Secretary.

SOUTH LONDON SCHOOL OF PHARMACY.

The whole of the Benches in the Laboratory are full up to the end of the Sessiou. Students desirous of entering the School on September 15 should send in their application with as little delay as possible, as more than half the places are already taken. Fee.—Minor Course, 10 guineas. For further particulars apply (with stamp) to W. BAXTER, Secretary, Central Public Laboratory, Kennington Cross, S.E.

BEST SEIDLITZ POWDERS.

JAMES C. CHUBB
Supplies the above, loose, at 7/-1 per gross; and in boxes at 8/-, 9/-, and 10/- per doz., through the Wholesale Houses, or from 29 OLD STREET, LONDON, E.C.; and will forward list of articles packed by him on application.

HIGGINSON'S ENEMAS.

BEST QUALITY, with Elastic Vagina Pipe and Shield, and Bone Rectum Pipe, in Slide Cedar Boxes, per doz. 28s.

Sample to any City Drug House for enclosure 34 stamps, or quarter dozen P.O.O. for 7s.

204 CITY ROAD, LONDON, E.C.



Sold by all Dealers throughout the World.

PRIVATE SCHOOL OF PHARMACY.

Mr. JAS. W. SAUNDERS, A.P.S., G.S.T., &c., 1 00.

PRIVATE TUTOR.

PRIVATE TUTOR.

FOR the snecess which attended my Students at the last examinations, vide Advert: Pbarm: John: May 17th, 1879. Terms moderate. Enclose stamp for references and Prospectus.

79 GAISFORD STREET, N.W.

GOLDEN

Trade Mark.



STAR"

The Only True and Genuine.

Unrivalled in Richness and Delicacy.

Put up in an Attractive Form, and commands a Ready Sale.

by has never before been officed in the English market. Its immense sale has heretofore been confined to America and West Indies

It is offered with the positive assurance that it is unequalled, and a successful rival with all other fine Toilet Waters. The above quality has never before been offcred in the English market.

SUPPLIED BY ALL WHOLESALE DEALERS.

Distillers' Agency: 114 and 116 Southampton Row, LONDON, England.

A CONTROL OF THE COL

World's

Restorer Hair

Never fails to restore Grey Hair to its youthful colour, imparting to it new life, growth, and lustrous beauty. Its action is certain and thorough, quickly banishing greyness. It is not a Dye. It ever proves itself the natural strengthener of the Hair. Its Superiority and Excellence are established.

Chemists & Perfumers

Principal Depot: 114 & 116 Southampton Row, LONDON, England.

PRIZE MEDAL PRIZE MEDAI AWARDED AWARDED PHILADELPHIA. PARIS 1878 1876.

CIGARETTE SMOKERS

-may we say of both sexes—should ask for "Allen's," "It is no figure of speech to say" —may we say of both sexes—should ask for "Allen's," "It is no figure of speech to say "that the daintily-made rolls contain less paper than tobacco, and that the latter is pure and unadulterated American. Whether the smoker indulges in "1 he Richmond Gem," with our mouth-pieces—the latter for choice—"The Pet" Cigarettes, or "Napoleon's "genuine Perione, his experience will be entirely satisfactory. The Tobacco is of the most exquisite quality. In fine, both as regards flavour and construction, Messrs. J. F. Allen & Co.'s Cigarettes thoroughly deserve recommendation. All Tobacconists supply them.—Vide The Illustrated Sporting and Dramatic News, June 15, 1878.

TO PIPE SMOKERS.

A CORRESPONDENT writes:—"The 'RICHMOND GEM MIXTURE' is delicious and remarkably well compounded; this Mixture should only be smoked indoors, it is far too good to be wasted 'on the desert air.'

"The 'RICHMOND GEM CURLY CUT' is also excellent, and it is difficult to choose between this and the above, but I think the turn is just in favour of the 'Mixture;' this is also almost too delicate a flavour for out-of-door use to enjoy it as one ought.

"The 'IMPERIAL BIRD'S EYE' is a pleasant, clean-smoking, fragrant Tobacco, capital for Yachting, Fishing, Shooting, or in fact any other out-of-door

"I observe one thing with all these Tobaccos, they do not cake, or go hard in the pipe, bowever tightly filled, and they burn to the very last grain; nor do they clog the pipe as other Tobaccos do, requiring frequent scraping; the absence of Nitre, besides saving the burning of the tongue and parching the throat, so usual with other Tobaccos, affords the luxury of a dry pipe to the last, there is no 'wobbling' to be heard a yard off."

TO EXPORTERS OF TOBACCO.

Richmond, Virginia, July 1, 1878.

SMOKING TOBACCOS.

"We beg to inform you that we have appointed Messrs, Henny K. Terry & Co. Sole Agents for Great Britain for the sale of our Tobaccos and Cligarettes. We have also given them the entire charge of our London Export and Shipping Trade, and take leave to refer you to them for quotations. Messrs, H. K. Terry & Co. have been acting as our Agents appointment will be attended with the most satisfactory results, both to you and us, in the future. Thanking you for your liberal patronage in the past, and respectfully soliciting its continuance, we remain, your obedient servants,

J. F. ALLEN & CO." Tobaccos and Cligarettes. We have also given them the entire charge of our London Export and Shipping Trade, and take leave to refer you to them for quotations. Messrs, H. K. Terry & Co. have been acting as our Agents and respectfully soliciting its continuance, we remain, your obedient servants,

"J. F. ALLEN & CO." Tobaccos and Cligarettes. We bave also given them the entire charge of our London Export and Shipping Trade, and take leave to refer you to them for quotations. Messrs, H. K. Terry & Co. have been acting as our Agents are also for them the entire charge of their business transactions hitlerto gives us perfect confidence that their appointment will be attended with the most satisfactory results, both to you and us, in the future. Thanking you for your liberal patronage in the past, and respectfully soliciting its continuance, we remain, your obedient servants,

J. F. ALLEN & CO."

J. F. ALLEN & CO.'S TOBACCOS and CIGARETTES (the Name and Trade Mark upon every Package) are sold by all first-class Establishments throughout the UNITED KINGDOM, INDIA, and the COLONIES.

Messrs. TREACHER & CO., Limited, Agents for Bombay, Byculla, and Poona; Messrs. WATSON & SUMMERS, Agents for Calcutta; Messrs. OAKES & CO., Agents for Madras; Messrs. DREYFUS & CO., Port Elizabeth; Mr. THEODOR DREYFUS, King William's Town, Wholesale Agents for the Cape Colony.

Sole Consignees: H. K. TERRY & CO., Great Russell Street, London.

EXPORT PRICE LIST FORWARDED TO THE TRADE UPON REQUEST.

RATE DE COLOGNE

OF THE MOST ANCIENT DISTILLER,

JOHANN MARIA FARINA,

Opposite the Julichs Place, COLOGNE.

ESTABLISHED A.D. 1709.

PRIZE MEDALS:-LONDON, 1851 AND 1862; OPORTO, 1865; PARIS, 1867.

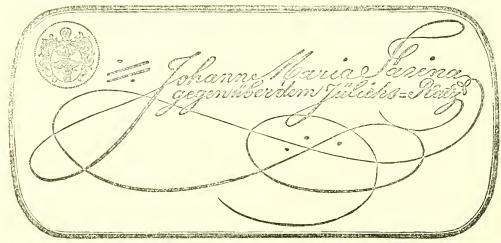
By appointment, Sole Purveyor to Her Most Gracious Majesty Victoria, Queen of Great Britain & Ireland; Their Royal Highnesses the Prince and Princess of Wales; William, King of Prussia;



Albert II., King of Saxony; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal; H.R.H. Frederick William, Crown Prince of Prussia.

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I beg to submit my Price Current.

At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the protection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been decided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

Orders equal to at least 12 dozen short bottles will be promptly executed at 12s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. $7\frac{1}{2}$ per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some

London House, or permission to draw on same at three months.

The Goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland:—

MESSRS. J. & R. McCRACKEN,

No. 38 Queen Street, Cannon Street, London, E.C.

The following are the sizes of my bottles:-

COLOGNE: January, 1879.

officially are the bizes of my courtes.							
No. 1. Long Green Flasks			•••		12	bottles `	1
2. Short White Bottles	as per				12	,,	
,, 3. Double ditto	- figure	• • •	• • •	• • •	6	,,	to one dozen.
,, 4. Wickered Bottles (small)	plate	•••	•••	•••	8	,,	20 010 001011
77 = 1	•	•••	•••	•••	9	99	
\mathbf{a} , 6. ditto (large)	***			• • •	4	99	1

JOHANN MARIA FARINA,

Opposite the Jülichs Place.

SPONGES

IN ORIGINAL PACKAGES.

Cases Free. Quotations subject to usual Terms.

No.				Des	scription.			Price)	per C	lase.	Number of Pieces per Case.
1 2	Honeycom	ıb,	Selected	quali	ty	 •••	assorted sizes	10	s. 18	$\frac{d}{0}$	70
2	,,	•	Fine	,,		 	,,		12	0	65
3	,,		Good	,,		 	,,	6	18	0	65
4	,,		Seeond	"		 	,,		18	0	65
5	,,		Third	,,		 	,,	3	12	0	70
6	,,		Rough,	or St	able use	 	,,	2	10	0	100
7	"			qualit		 	large bath sizes	6	14	0	18
8	,,		Fine	,,,		 	,,	4	15	0	18
9	,,		Good	,,		 	,,	2	17	0	18
10	,,		Common			 	,,	1	18	0	18
11	,,		First	"		 	small	3	10	0	200
12	,,		Second	11	• • •	 	,,	1	16	0	200
13	Turkey, Co	ips,	First	"		 	bath sizes	14	15	0	40
14		,,	Second	"		 	,,	11	10	0	40
15		,,	First	,,	assorted	 	Toilet sizes	17	18	0	70
16		,,	Good	,,	11	 	,,	14	15	0	70
17		,,	Second	,,	,,	 	,,	10	18	0	70
18		"	Useful p		"	 	,,	7	7	0	70
19		,,	First qua		small	 	Nursery sizes	9	18	0	190
20		,,	C i	,,	,,	 •••	11		15	0	180
21		olid,	First	"	assorted	 	Toilet sizes	10	17	0	150
22		,,	Good	"	,,	 •••	,,	5	6	0	100
23		,, ,,	T7:4	,,	small		Nursery sizes	7	17	0	200
24		17	Seeond	"	,,	 			18	0	170
25		own,		,,	"	 	assorted sizes		$\overline{17}$	0	175

SELECTED SPONGES.

						PROPERTY AND ADDRESS OF THE	STATE OF THE PERSON	THE RESERVE THE PARTY NAMED IN	Contract Con			
										£	s.	d.
Honeye	omb,							per lb.		12/0 and 0	15	0
,,,	S	mall							per lb.			
Turkey	, Cup, fo	or the Bath,	from 3	3 to 6 t	to the l	b			per lb. $30/0$,	38/0 and 2		
,,	,, fo	or the Toile							,, 30/0,	35/0 and 2		
,,	,,				to 18				,, 45/0,	50/0 and 3		
,,	,, fo	or the Nurs	ery, fro	om 25 t	to 40 to	the lb			,, 20/0,	25/0 and 1/1		
,,	Eye								,, 12/0,	16/0 and 1		
,,	Solid,	for the Nur	sery, fi	rom 25	to 40 t					16/0 and 1		_
,,		for the Toil							per lb. $12/0, 16/0,$			
,,	Rough	, suitable fo	or Slate	es, &c.					per lb. $4/0$,	6/0 and 0	8	0
,,	Carria	ge						•••	per lb. $8/0, 12/0,$	16/0 and 1	0	
,,	,,	brown							per lb. $4/0$,	6/0 and 0	8	0

S. MAW, SON & THOMPSON,

7 to 12 ALDERSGATE STREET, LONDON.

SPRING AND SUMMER GOODS.

CRAWSHAW'S CRYSTAL DYES.

- 6d. Boxes Crawshaw's Crystal Dyes | 48/per In 1/2 gross (7 doz.) Counter Case with Glass Lid. | gross.
- 6d. Boxes Crawshaw's Crystal Dyes } 48/In Boxes of 1 doz. (14). } 48/-

- 2d. Packets Crawshaw's Useful Dyes \ \frac{14}{per gross.}

- 2d. Packets Crawshaw's Useful Dyes \ \frac{14}{per gross.}
- 1d. Packets Crawshaw's Useful Dyes or per gross. Science of the control of the co
- 1d. Packets Crawshaw's Useful Dyes 3 gross Cardboard Boxes.
- 1d. Packets Crawshaw's Useful Dyes 37/per
 Mounted on ½ gross Cards.

The Excelsior Penny Dyes.

Mounted on Cards of ½ gross each. These Dyes are good value for the money; suitable for low-class Wholesale Trade, and where Cheap Goods are required. There is no Maker's Name on the Packets or Cards.

CRAWSHAW'S INSECT POWDER

For Destroying Beetles, Crickets, Moths, Green Fly, Fleas, Bugs, Lice, Cockroaches, &c.

- 6d. Tins Crawshaw's Insect Powder } der are gross.
- 3d. Boxes Crawshaw's Beetle Powder In ½ gross Wood Boxes.
- **1**d. Boxes Crawshaw's Insect Powder $\frac{7}{\text{per}}$ gross Wood Boxes.
- 1d. Boxes Crawshaw's Insect Powder of gross.

 $\left. \begin{array}{cccc} \dots & \dots & \\ & \dots & \\ \end{array} \right\}_{\substack{\mathrm{per} \\ \mathrm{gross.}}}^{21/}$

MAY BE HAD FROM ALL THE WHOLESALE HOUSES.

E. CRAWSHAW & CO., 80 FANN ST., ALDERSGATE ST., LONDON, E.C.

LUXURIANT HAIR.

PETROLINE

[REGISTERED]

HAIR CREAM

THE MOST POWERFUL OF HAIR PRODUCERS.

It causes the Hair to grow on Bald Spots, by nourishing and vitalising the capillaries, and is the only preparation which specially acts on the Roots of the Hair. It preserves and prevents the Hair from falling off, and removes dandruff; allays all irritating sensations, and imparts a richness, lustre, and softness unapproached by any other preparation. As a Hair Dresser, Preserver, and Producer it is unequalled. Retail price, 3s. 6d. per Bottle (cased). To the Trade, 27s. per dozen, less 10 per cent. Handsome Show Cards and Bills with each order.

DR. DELORME'S

AMA ROSA

[REGISTERED]

TOOTH PASTE

IN COLLAPSIBLE TUBES AND GLASS TOP BOXES.

The quantity contained in these Tubes is greater than a Pot of corresponding price. Retail, 6d. and 1s. each. Special quotation, 3s. 3d. and 6s. per dozen net. Cards and Bills with every package.

Sole Proprietors - NERWICH & CO., WYNNE ROAD, BRIXTON, LONDON, S.W.

THE BEST GOT UP AND MOST SALEABLE

SHILLING MARKING INK

IN THE TRADE.

It keeps its Colour and will not injure the most delicate fabric.



- No. 1.—PETERS' ARGENTUM, contains usual size Bottle of lnk, Pen, and New Square Stretcher.—Price 1s.
- No. 2.—PETERS' ARGENTUM, contains Larger Bottle of Ink and Pen.—Price 1s.
- No. 3.—PETERS' ARGENTUM, contains Bottle of Ink, equal to 12 of No. 1, or 8 of No. 2.—Price 5s. per case.

SOLE PROPRIETOR AND MANUFACTURER-

R. W. WATSON, Chemist, 22 ANGEL STREET, SHEFFIELD.

0

0



REDUCTION OF PRICES

6d. and 1s. PEDESTALS, Glass Cases included.

20 per cent. off £100 Orders.



ETERMINED TO PREVENT IN ALL CASES

OF INJUNCTION GRANTED NOV. 28, 1877. WRIT

COMMON PLEAS DIVISION, JAN. 15.

(Sittings before Lord Coleridge and Justices Grove and Denman.)

HICKISSON v. ASHTON. Defendant moved for a NEW TRIAL.

Application REFUSED.

This action, which was brought for the alleged infringement of the Plaintiff's Trade Mark, was tried at the last sittings at Guildhall, before Mr. Baron Cleasby, when the verdict was for the Plaintiff with damages.

Cleasby, when the verdict was for the Plaintif with damages.

The PLAINTIFF was the HUS-BAND of the DAUGHTER of the late JOHN BOND, the PROPRIETOR of BOND'S CRYSTAL PALACE MARKING INK. The Defendant was a Druggist, and he had sold a Marking Ibk manufactured by a Mr. Murphy, and the Plaintiff complained that the Labels on Murphy's Ink were an infringement on his Labels. A TRADE MARK is not only a SYM-BOLO THARACTER, but the general appearance of a label, whereby the public would be deceived.

Their Lordships this morning, after consulting Mr. Baron Cleasby on the matter, refused the rule, that learned judge having expressed his satisfaction with the verdict... RULE REF USED. Vide daily papers.

with the verdict.—I Vide daily papers.

ANOTHER GOLD MEDAL AWARDED,

PARIS ACADEMIE,

For Merit and Superiority of Finish, 2nd Award. PRIZE MEDAL, PARIS, 1878, 2ND AWARD.

3 Gold and several Silver and Bronze Medals. Hon. Mention, Paris, 1878.

PRIZE MEDAL AND GRAND DIPLOMA, 8 Medals.] Philadelphia Exhibition, 1876. [7 Diplomas.

PURVEYOR TO THE LORDS COMMISSIONERS OF THE ADMIRALTY. CAUTION.—The only GOLD Medal Marking Ink. Gold and Silver Medals and Diploma, Silver Medal and Diploma, London. Prize Medal, Lyons, Certificate of Merit, signed Albert Edward, Prince of Wales; and Dublin Diploma. Marking Ink Maker under Royal Warrant to Her Majesty the Queen and Court of Holland.

GOLD MEDAL, SOUTH AFRICA, 1877.

HONOURABLE MENTION and ESPECIAL NOTICE from the FRENCH PRESIDENT and H.R.H. the PRINCE OF WALES, Paris Exhibition, 1878.
HONOURABLE MENTION and DIPLOMA awarded by the JURORS, 1878.
SECOND GOLD MEDAL awarded by the PARIS ACADEMY, 1878, for Ment and Superiority of Production.

J. HICKISSON, Proprietor of the Daughter of the late John Bond's Crystal Palace Marking Ink, 75 Southgate Road, London,

DOND'S MARKING INK.
CAUTION to Wholesale and Retail Vendors.—TAKE NOTICE that on Nov. 26th, 1877, IN AN ACTION "HICKISSON & ANO-THER against MURPHY" JUDGMENT was given for PLAINTIFFS, WITH DAMAGES AND COSTS, AND A PERPETUAL IN-JUNCTION GRANTED RESTRAINING the said MRS, MURPHY and her AGENTS FROM USING the word "BOND" upon any labels or pedestals manufactured by or for her, OR FROM IN ANY WAY REPRESENTING THE INK MANUFACTURED BY HER TO BE BOND'S

MARKING INK.

6d. Bottles in Round Blue Cases (Grand Show Card enclosed with each Packet of one dozen) 30s. 1s. (Handsome Show Card enclosed with each dozen) ... 60s.

Round Blue Wrapper upon Show Card of one dozen 6d.

30s.

LOODOS CHALL START TO And One would be Maders Chemiste, Tellith all olders forced AOH, AND DO OFFINA & Chalomer by sending

Have you seen the New Black and Gold Glass Cases with Hinged Black and Gold Framed Linen Specimen of the Crystal Palace with elaborate GOLD Mounts?

FACSIMILE OF THE GENUINE LABEL. Ada. 18. De classes ND DIPLOMA AWARDED PA BYALBERT EDWARD, PRINCE BYALBERT EDWARD, PRINCE AS TAMENT TO DEDA! Shap PARIS, SILVER MEDAL SPARIS TO QUEEN Desk REGISTERED THE ONLY GOLDMEDAL

Blue Wrappers. Black and White Oval Label.

DEAR HICKISSON, — Send on receipt the £200 order, as we are much increasing our trade by pushing your Ink in place of useless Novelties, as some other Wholesale Houses are sending other Makers', and thereby the Retail are closing their accounts. The 50 No. 1 Glass Cases are sold. Repeat order immediate.—Yours,

BROWN & CO.

29/4/78.

No Heating Required if allowed to remain three hours previous to Washing.

No. 2 Case, containing 3 doz. 1s., Crystal Palace and Royal Indelible, Blue Wrapper, Black and White Oval Label, old style. 16s. each.

No. 3 Case, containing 1 doz. 1s., Crystal Palace and Royal Indelible, Blue Wrapper, old style, and 2 doz. 6d., do. do. 11s. each.

No. 4 Case, containing 3 doz. 6d., Crystal Palace and Royal Indelible, Blue Wrappers, Black and White Oval Label, old style. 8s. 6d. each.

WILL PROSECUTE IN EVERY CASE OF



Highly recommended by the Linear, Sanitary
Record, and the Medical
Press as an elegant
Antiseptic Tollet soap for
the Skin, with an
aromatic disinfectant for the Apartment.



The Antiseptic properties of the Eucatopius Tree are now fully retained by enclosing the Soap in tinfoil, and any or the old stock on hand will be exchanged for f.esh, force f.esh, free of cost.

The Standard says:—"As an antiseptac, Euca your Sony has no riva 6d. Boxes of Three Tablets. 12s. per Dozen es of Three Tablets. 12s. per Dozen Boxes.

Special Articles particularly noted for their excellence:

SOAPS. Per doz. TOILET BOUQUETS. Per doz. POMADES, &c. Per doz. Cent-Fleur (copyright) 2 6 Boxes of 20 Cent-Fleur (copyright) Cent-Fleur (copyright) 8/,12/ & 20/ Star of India Jockey Club 1/6 12 12 | Petroleum Pomade ... 12/ & 18/ Gluss 12 1/6 Musk Windsor Pearl of Perfumes ... Stoppered or Sprinkling Brilliantine8/, 12/ & 20/ 12/6 Stephanotis 18 | Anglo Eau de Cologne 1/6 Sandringham " 8/ & 12/ 12 | White Rose ... Eucalyptus Oil ,, Bottles. otus Oil ,, 1/6 , 12/ White Rose ... Beater 24/ Eucalyptus Vinegar ... 12/ Ut Bars ,, 1/ Berry 8/6 Ylang-Ylang ... 24/ White Cherry Tooth Paste 8/ TRADE PRICE LISTS SENT AND GROFRS EXECUTED THROUGH WHOLESALE HOUSES, DR DIRECT FROM THE MANUFACTURERS, 1/6 Eucalyptus Vinegar ... 12/ & 20/ Semi-Cut Bars White Cherry Tooth Paste 8 | & 12 | GROSSMITH, Wholesale Perfumers, WHITAKER 120 Fore St., City, London.

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Richly perfumed, and guaranteed to contain the necessary quantity of GLYCERINE for effectually imparting to the SKIN the softening and healing properties for which GLYCERINE is so justly famed.

NICCESSARY CAUTION.—This unrivalled Toilet Soap was originated by us in 1863, and solely by its superior merit and moderate price has now attained the patronage of a wide circle of all classes of society. As many (external) imitations of our saleable article are often falsely offered as the real Soap, all vendors should please note that the Box and Wrappers now bear our "Trade Mark," and not be misled by inferior counterfeits, thereby causing disappointment to purchasers, and consequent injury to the sale of the original and genuine Soap.

Is. 6d. Boxes of Three Tablets, 12s. per Dozen Boxes.

Trade Price Lists sent and Orders executed through Wholesale Houses, or direct from the Manufacturers,

WHITAKER & GROSSMITH, Wholesale Perfumers, 120 Fore Street, City, London.

THE SYRINGE

Retail. 6d. each.



Wholesale, 4s. per dozen.

Is a great improvement upon the "DENTAL SYRINGE." as the fluid is contained in a glass bulb, which enables its contents to be seen, also prevents the hability to evaporation through long keeping or exposure.

VERSAL CORN

1 doz. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 3s. 6d. per doz. It is especially adapted for Export Trade, and may be safely sent to the hottest climates, as each glass tube is hermetically sealed and enclosed in a cardboard case.

N.B.—Both the above are exempt from Stamp Duty by permission of the Board of Inland Revenue.

"The BOUQUET" EMPRESS of INDIA'S (Registered under the new Trade Marks Act),

A DELIGHTFUL, REFRESHING, AND FASHIONABLE PERFUME.

"Chemists may gratify their loyalty to their hearts' content by selling a perfume just introduced by Mr. B. Robinson, of Pendleton, Manchester, called 'The Empress of India's Bouquet.' The perfume is remarkably cheap, and is by no means lacking in richness. The shilling bottles are good sized ones, corked with the patent sprinklers, and decorated with a faithful likeness of the Empress alluded to."—Editor of The Chemist and Druggis, November 15th, 1876. November 15th, 1876.

Sold in Bottles, at 1s. each, or Treble Size, 2s. 6d.; Wholesale, 8s. per dozen in 1-dozen cases, and 20s. per dozen in \(\frac{1}{2}\)-dozen cases.

MANCHES

Prepared only by B. ROBINSON, Operative Chemist and Distiller, PENDLETON, MANCHESTER.

CONCENTRATED WATERS.—One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by their use a Irresh supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate.

N.B.—Used in the proportion of one part to thirty-two of water they represent the Medicinal Waters of the United States Pharmacongia.



Pharmacopæia. Aqua Anethi, Concent. Anisi. Camphoræ ,, Carni

The above are put up in Bottles of 11b. or 11b. and upwards, each of which has the Inventor's Protection Label over cork.

Wholesale Agents—Hearon & Co., Maw, Son, & Thompson, Lynch & Co., Lendon; Evans, Sons & Co., Raimes, Liverpool; Mather, Woolley, Manchester; Bewley & Draper, Dublin; Glasgow Apothecaries' Co., Hatrick & Co., Glasgow; Raimes & Co., Edinburgh; Foggitt, Thirsk; Goodall & Co., Leeds; Clarke, Bleasdale & Co., York; McKesson & Robbins, New York. Special terms for large quantities may be had from

B. ROBINSON, Operative Chemist, Distiller and Brewer of British Wines, Manchester.

PRICE LISTS ON APPLICATION.

BRISTOW'S

SPECIALITIES.

ESTABLISHED YEARS. 100 TOILET AND EVERY FANCY DESCRIPTION. SOAPS CHOICE PERFUMES IN BULK.

No. 1 extra 12/ per pint of 20 ozs.
No. 1 9/6 , , Put up also in great variety of size, style, and price.

SOAPS. Zinc, Sulphur, Petroleum, 163. & 1/ Petroline, Juniper Tar, & 4/ & 8/ other Medicated Soaps. . J doz. Glycerine Jelly, 63. and 1/ stoppered bots., 4/ & 8/ per doz. PERFUMERY

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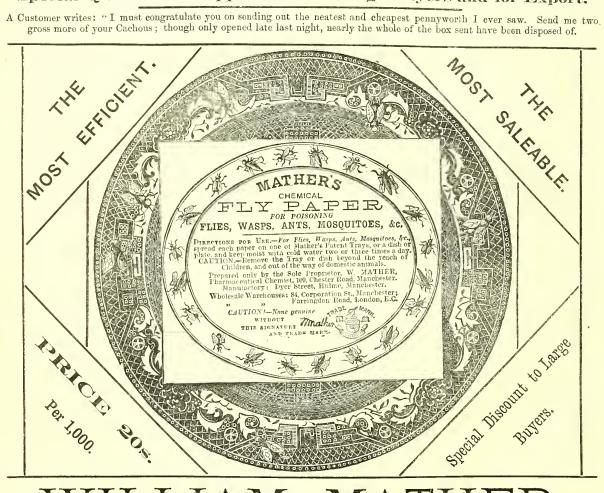
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In great variety.

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6/ and 7/.

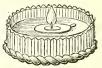
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12/, 14/, 16/, & 20/. Rich Cut, Silver Capped, per doz., 30/ and 48/.

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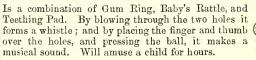
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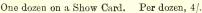
Give a better light and burn longer than any others yet introduced. Mothers will find them very useful in keeping warm the Infants' Food as long as required. They are invaluable for the sick-room, as they give no smell, and are perfectly safe and economical.



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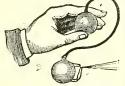


Fig. 2. Per doz., 20/.

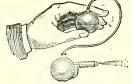


Fig. 4. Per doz., 27/.

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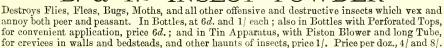
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BOURNE & TAYLOR,

Wholesale and Export Druggists' Sundriesmen, 35 CASTLE STREET, HOLBORN, LONDON, E.C.

Ten per Cent. Discount allowed for Cash.

"I know a Bank whereon the Wild Thyme blows."

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Transparent Glycerine Soap, In registered Packets of three Tablets, 1s. Warranted to contain 33% of the purest Glycerine. Also in round Tablets, Scented Glycerine,

three in a Box; and in oval Tablets in paper.

Liquid Glycerine Soap,

Best preventive against chapped hands, 1s., and unrivalled for imparting softness to them, and rendering them clean and white. See Testimonials of Professor J. von Liebig, Baron; and of Professor F. Wöhler.

In Bottles at various prices. Either pure or diluted with water, this Glycerine is very successfully used for softening the skin, preserving the complexion, and preventing the very unpleasant

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Is quite unequalled for imparting a fresh and healthy colour to the lips and keeping them from chapping.

Sarg's new Carbolic Glycerine Soap, In Boxes of three Tablets, is highly recommended as a most effective disinfectant.

Sold by all Wholesale Chemists and Druggists. Sole Wholesale Agents for the United Kingdom:

SCHMEDES, ERBSLOH & CO. (CHEMICALS AND DRUGS), 6 CASTLE STREET, FALCON SQUARE, LONDON, E.C.; AND MELBOURNE, AUSTRALIA.

THYMOL, a newly-discovered Crystal prepared from Wild Thyme (Origanum Vulgare), is pronounced by some of the most eminent Chemists and Physicians in Europe to be far superior to, and stronger than, Carbolic Acid, Coal Tar, or any other of the Antiseptics and Disinfectants hitherto known. It has been shown by the experiments of Lewis and Bucholtz to be about eight times as powerful as Carbolic Acid.

It has also the very great advantage of being QUITE HARMLESS, and possesses the DELICIOUS and FRAGRANT ODOUR of WILD THYME.

Manufactured by them with their Pure Crystals of Thymol, is confidently recommended as one of the very best and most elegant Soaps ever introduced to the Public.

It is adapted for the TOILET as a SKIN SOAP, as an ANTISEPTIC SOAP, and FOR GENERAL FAMILY USE.

An easy test of its effectiveness is, that it at once and completely removes the odour of Tobacco Smoke. See that each Cake bears our registered Trade Mark.

Sold in Tablets, 6d.; or in Boxes, containing 3 large Tablets, 1s. 6d. per Box.

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Wholesale and Export Druggists and Chemists to the QUEEN,

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And may be procured through all Chemists.

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Also Agents for CHEMICALLY PURE TINFOIL, as thin as 90 square feet to the 1b. MIXED & LEAD FOIL & FOIL PAPER. COLOURED CAPPING & FANCY PAPERS. Samples and Prices post free on application.

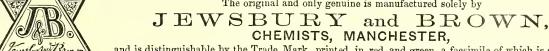
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JEWSBURY BROWN AND

ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been Forty Years before the Public It is warranted to retain its properties and keep in good condition in any climate.

The original and only genuine is manufactured solely by



and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

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And Importer of Perfumery & Fancy Goods, 5, 6, & 7 HOLBORN BARS,



TRADE MARK.

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BRUSHES. MIRRORS. CUTLERY. FRENCH PERFUMERY—ED. PINAUD'S and DEMARSON, CHETELAL & CO.

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THESE COMBS BEAR THE NEAREST RESEMBLANCE

For the



Hair.

This preparation produces one of the most beautiful and fashionable tints that have been conveyed to the Human Hair. It converts Hair of any colour to tints varying from the richest auburn to the most brilliant golden or sunny hue. It is perfectly harmless and free from smell. In all instances it has given the greatest satisfaction; and is, as a genuine and profitable article, recommended to the Trade. Pamphlets and Handsome Show Cards. 5s. size, price 30s. per dozen.

Agent: C. J. KING, London.

TRIPLE DISTILLED. The only true Universal & Genuine Article. Distilled from the leaves of the Bay Tree (Myrciactris). THIS ARTICLE COMMANDS A READY SALE.

This delicate Spirit has acquired a great popularity in America and the West Indies. It is an indispensable Eau de Toilet for the Nursery and Bath, and is an effective remedy for Headache, Nervousness, and Rheumatic Pains. It also alleviates irritation of the skin after shaving or from change of temperature, and removes all impurities from the skin.

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Much admired for its lasting fragrance.

This valuable toilet preparation for the Hair is highly recommended on account of its nutritive and restorative properties.

Attractively put up in Round Shouldered White Glass Bottles.

3 ozs. 4 ozs.

6 ozs. 8 ozs. 2s. 9d. 5s. 3d. 7s. per doz.

C. J. KING. 5, 6, & HOLBORN BARS. LONDON.

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139 St. John Street Road, London, E.C.,

BATH GLOVES, CHEST PROTECTORS, &c.

Sole Proprietor of the "Lung Protector," Registered.



BOTTLES. GLASS MEASURES, &C.

ROUND SHOULDER OR LIME JUICE BOTTLES. GLASS MEASURES, accurately marked, 3/6 4/- 4/6 5/6 6/6 7/6 9/6 11/6 14/- 16/- 19/- 21/- grs. BEST KALI OR CONFECTIONERS' BOTTLES.

4 6 8 10 12 20 oz. 8/- 10/- 12/- 15/- 18/- 24/- gross. 8/ 10/- 12/- 15/- 18/- 24/- gross.

BEST STOPPERED BOTTLES (all kinds), ½ oz. to

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20 oz. 15s. to 60s. gross.

BEST QUALITY GREEN FLINT DISPENSING BOTTLES, Vial Lips, Flat or Oval, 3-oz. & 4-oz., 8s.; 6-oz. & 8-oz., 8s. 6d.; 10-oz. & 12-oz., 14s. per gross. Gasogenes, first-class article, 3-pint, 12s. 6d.; and 5-pint, 15s.

GLASS SYRINGES, BEST QUALITY 14/- 18/- 27/- 49/- per gross.

All and every kind of Bottle made. Special prices given for any particular pattern.

N.B.—All goods are sold in bulk. Special quotations to large buyers.

JONAS & JULES LANG, GLASS WORKS, ALSACE & LORRAINE. for an order of six dozen or upwards. GLASS SYRINGES, BEST QUALITY $\frac{1}{4}$, $\frac{1}{13}$, $\frac{1}{27}$, $\frac{2}{49}$, per gross. All and every kind of Bottle made. Special prices given for any particular pattern. N.B.—All goods are sold in bulk. Special quotations to large buyers.

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1 2 4 6 8 10 12 16 20 40 oz.
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FEEDING BOTTLES. (If in large quantities.)
Best Green Glass, one dozen in a box, 29s, grs.
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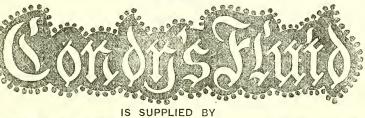
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Condy's Fluid, red 1s. size, Government strength 4s. per doz. net. 2s. Condy's Ozonised " 3/6

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Chemists wishing to profit by our Reduced Prices should order R. CONDY & CO.'S FLUID of their Wholesale House.

Our articles are made in strict accordance with the Patent, and are guaranteed by the original labels of our old Firm to imitate which is a misdemeanour.

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OF ACKNOWLEDGED EXCELLENCE, HANDSOMELY PACKED IN ALL SIZES.

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OF GUARANTEED QUALITY AND STANDARD WEIGHT,

In 1s. Boxes, shouldered and very neatly got up, or loose in One Gross Boxes.

DIRECTIONS IN THREE LANGUAGES FOR EXPORT.

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CHLORIDE LIME in packets, 3 oz., 8s. per gross. Will keep in perfect condition for 12 months. PULV. LEM. LINI., our own Grinding and Warranted Pure, 21s. per cwt. EPSOM SALTS, in 1 oz. packets, 13s. per cwt. BRUNSWICK BLACK, 4s. 6d. per gall. ULTRAMARINE (Lime Blue), in packets, 28s. per cwt.

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A NTISEPTIC DISINFECTANT for Preventing Epidemics and Destroying Infectious Diseases, as supplied to the Royal Arsenal, Woolwich. This A Fluid is a powerful Antiseptic, Disinfectant, and Deodoriser, and from its harmlessness may be applied in any direction without any ill effects, and with the best possible results. THE "PRINCESS ALICE" CALAMITY.—The Sanitary Fluid was used at the Woolwich Dockyard for Disinfecting over 600 Bodies. The Clothing taken from the Bodies and over 500 Sheets were also Disinfected in large Candrons, also the Building, Yards, &e., giving the greatest satisfaction to the Dockyard and Parish Anthorities. The work was carried out under the superintendence of Mr. HARMER.

TESTIMONIAL.—"H.M. Dockyard, Woolwich, September 23, 1878. SIR.—I beg to inform you that I consider your Disinfectant as applied in the Dockyard both to buildings and clothing after the removal of the dead from the premises, very efficacions, and, from its cleanliness and absence of smell, very superior to the Disinfectants in the form of powder generally used.—Faithfully yours, J. T. Barrington, Assistant Commissary General. Mr. Harmer, Stratford, E., or through Agents.

The Adalos & H.D. for Geograf Hayeshold Baymerses raise 16 per gallon. Write for Pamphlet, with Testimonials & M. NON POISONAUS.

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The MAGIC FLUID for General Household Purposes, price 1/6 per gallon.

Write for Pamphlet, with Testimonials, &c.

Dr. BILLING'S

INSTANTANEOUS DISINFECTANT & DEODORIZER

IS THE MOST RELIABLE AND THE CHEAPEST IN THE WORLD.

Harmless to furniture and linen. Does not stain. Odourless, but powerful! It instantly deodorises and disinfects any material it is applied to, no matter how feetid or offensive! Destroys and neutralises instantly all poisonous gases, arrests decomposition, and prevents contagion. Reliable and safe in the sick chamber, the hospital, and for all sanitary purposes.

ONLY ONE QUALITY-THE BEST!"

Price 2s. per quart bottle, sufficient to make two gallons of the best and cheapest disinfectant in the world.

Send for Pamphlet.

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Dr. C. R. Coffin's AMERICAN DENTIFRICE.

Prepared only by WILLIAM DARLING, Chemist, Manchester. May be had from S. Maw, Son, & Thompson; Barclay & Sons; F. Newbery & Sons; Sanger & Sons; and any Wholesale House in London. Price 2s. per Box, and Family Jars 10s. READ THIS.

BAYLY'S LAUNDRESSES' FRIEND

(REGISTERED).

Once used will always be required. One trial will prove its value to Ladies, Housekeepers, and Laundresses for the brilliant gloss and stiffness it imparts to all kinds of Linen, especially to Shirt Fronts, Collars, &e., and ean be used with equal success in boiled and cold water starch. Sold by all Chemists, in 1d. and 3d. Packets, and 6d. Tins. 1d., 8s.; 3d., 24s.; 6d., 48s. gross, less 10 per cent. for cash.

POWDER INSECT TINS.

Perforated, to hold ½ oz., 6s.; 1 oz., 8s. 6d.; 2 oz., 11s. gross, less 5 per eent for eash.

PREPARED BY

BAYLY 65 MACDONALD STREET, BIRMINGHAM.

BEST ROLLED LETTERS, 18s. gross.

DURE LEICESTERSHIRE LEAF LARD, especially prepared for Pharmaeeutieal use, in 10-lb. air-tight tins, 6d. per lb; also in 1, 2 and 3 ewt. casks, 42s. per ewt.; slightly tinged lard for sheep and cattle ointment, 37s. per ewt.; finest lard oil, 3s. 9d. per gallon; fine neatsfoot oil, 4s. per gallon; Cooper's "Excelsior" machine oil, 2s. 7d. per gallon; an excellent lubricant for light machinery, 2s. per gallon; dark libricant, 1s. 10d. per gallon. The Trade only supplied. Apply, J. Cooper, Lard and Oil Merchant, Church Gate, Leieester.

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VERY SUPERIOR

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SNOOK & SON'S "INSECTO," the most effectual exterminator for all kinds of Insects, ground from the finest selected Dalmatian flowers, and guaranteed pure. 3d., 2s.; 6d., 4s. per dozen. Each box is fitted with a perforated zinc top, so that it can be used as a dredger. One dozen to any wholesale house in London for 24 or 48 stamps. Special quotations for large quantity.

SNOOK & SON'S ARNICATED AND WHITE FELT CORN AND BUNION PLASTERS are the best and cheapest in the trade.

Snook & Son's New Brighton Bath Gloves. Sponge Gloves are made with thumbs, and filled with Sponge; will be found the most perfect substitute for the Sponge yet introduced. 6s. 6d. per dozen gloves.

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Snook & Son's ld. Violet Powder, Pure Starch, each Packet with guarantee, in show boxes for the counter, as per illustration. Per gross, 5s.

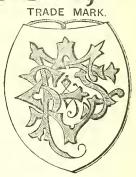
Snook & Son's ld. Pure Fuller's Earth, each packet with guarantee, packed in same style as the Violet Powder. Price per gross, 4s. 3d.

Snook & Son's 3d. & 6d. Fuller's Earth, in Round Fancy Gold Boxes, one dozen in a box. 3d., 18s.; 6d., 36s. per gross.

Any of the above goods may be had through all Wholesale Houses.

Price List or Samples free per post on receipt of business card.

376 CITY ROAD, LONDON, E.C.



1/4 lb.





G. SALTER & CO., WHOLESALE PERFUMERS

And FANCY BRUSH MANUFACTURERS,
Red Lion Square, London.

(ESTABLISHED 1830.)

The best value given in Pomades, Lime Juice and Glycerine, Indian Cream, French Extracts, &c., &c.

Specialitie Triple Extracts, Gilt Sprinklers, or Glass Stoppered Bottle, 1 oz., 12s.; 1½ oz., 17s.

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DR. STARTIN'S "MEDELA,"
OR ANTI-SCURF POMADE, 12s. dozen.

DR. LINCOLN'S HAIR RENEWER,

A NEW PREPARATION FOR RESTORING THE HAIR, WELL GOT-UP,

In Two Bottles in One Case, 24s. dozen.

TINGO COMA,

THE BEST DYE IN THE MARKET, 20s. dozen.

A Sample Case of well-selected Perfumery, Pomades, &c., sent to any address on receipt of P. Order for 25s
SOLE PROPRIETORS OF



DIRECT OR THROUGH ALL WHOLESALE HOUSES.

3, 4 and 5 Little Windmill Street, Golden Square.

One Quality only—Finest BRITISH SPIRIT.

Not less than 2 Gallons, 56° o.p., 20/6; 60° o.p., 21/0 per Gallon.

 56° o.p., 19/9; 60° o.p., 20/3

COUNTRY ORDERS MUST CONTAIN A REMITTANCE. FOR CASH ON DELIVERY ONLY.

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OLD FURNIVAL'S DISTILLERY, 26 & 27 HIGH HOLBORN, LONDON, W.C.

PURE GOLD COLOURED

FREE FROM ACIDITY.

£12 10s. per Quarter-Cask of 27 Gallons. 5s. per Octave 13 $\frac{1}{2}$ £6...

Brilliant and fit for immediate use. Casks to be returned or paid for. 2½ per cent. discount for Cash.

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PURE SPIRITS OF WINE

TINCTURES, ESSENCES, PERFUMES, &c., OXFORD ROAD DISTILLERY, MANCHESTER.

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Beg to call the attention of CHEMISTS and DRUGGISTS to the undermentioned Prices of Pure Spirits of Wine:

Specific Gravity. Price per gallon.

rengun per cenu.		specine Gravity.	Friee per gallo
63 over proc	of	0.8238	 21/0
60 ,,		0.8588	 20/8
55 ,,		0.8366	 20/2
50 ,,		0.8482	 19/6

Special quotations for large quantities. Terms-Cash on Delivery. Jars to be returned or paid for.

Orders from the country must be accompanied with a remittance, including the price of the Jars, which are charged as follows:—2 galls, 3/-; 3 galls, 3/6; 4 galls, 4/-; 6 galls, 6/-. When the empties are returned the more will be repaid. Can be had free for exportation.

SPIRITUS RECTIFICATUS, P.B.

A highly-rectified English Grain Spirit, free from Fusel Oil.

6) over proof, 20s. 6d. per gallon; 56 over proof, 20s. per gallon; less 6d. per gallon for five gallons. Lower quotatious for quantities. Cash on delivery or with order. Packages charged, and money repail when empties returned, 2s. 6d. for two gallons; 5s. for five gallons. Country Orders must contain remittance or reference to London House.

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IMPORTER & WHOLESALE DEALER IN MEERSCHAUM & BRIAR PIPES,

And every Requisite for Tobacconists.

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PIMMEL'S AROMATIC OZONIZER, a fragrant powder which, simply spread on a plate in apartments or places of public resort, evolves the refreshing and healthy emanations of the Pine and Eucalyptus, and produces a quantity of Ozone, the great air purifier. It is in use in the principal Hotels, Clubs, and Theatres, and also in the Saloons and Cabins of several Lines of Steamships. In 4 oz. tins, 1s.; by post for 15 stamps; 1 lb. tins, 3s. 6d.; Spreading Plate, 6d.

RIMMEL'S OZONIZED

Dr. DAY, of Geelong, who has devoted much time and attention to sanitary questions, has discovered that alcoholic perfumes form excellent vehicles for diffusing ozone in the atmosphere and destroying noxious emanatious and miasma. At his suggestion, E. Rimmel has prepared a series of Tollet Waters (Ean-de-Cologne, Lavender, and Florida), which are oxygenated by a chemical process, and evolve a quantity of Ozone. They are strongly recommended to be used on the handkerchief when attending crowded places, visiting the sick, or travelling by land or sea; also to be sprinkled on beds or earpets, or on a pad hung up in the air. Dr. Day writes to E. Rimmel (November 28, 1877):—"In manufacturing and making known the hygienic value of oxygenated perfumery you will be conferring a great benefit to the public, for it is the best means of disinfecting bedrooms, closets, &c.

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ARECA NUT TOOTH PASTE. WOODS'

For Removing Tartar and Whitening the Teeth, without injuring the Enamel. Sold in Pots, at 6d. and 1s. each.

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QUININE, CANTHARIDINE, & ROSEMARY HAIR CREAM

(With Grease), Restores the Hair if weak or falling off, Price 9d., 1s. 6d. and 3s. 6d. per bottle.

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OUININE, CANTHARIDINE, & ROSEMARY HAIR WASH, Similar to the above (without grease). Price 1s. 6d. and 3s. 6d. per bottle.

WOODS' DANDRUFF POMADE.

Never fails. 1s. per pot.

Proprietor: W. WOODS, M.P.S., Chemist, Plymouth. SOLD WHOLESALE BY ALL LONDON HOUSES.



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Warranted Healthy, Wholesale and for Exportation, Direct from Marshes

FITCH & NOTTINGHAM. Lecch Breeders.

MARSEILLES, & 55 PENTONVILLE ROAD, LONDON, N.

All Orders by Post receive immediate attention.

SPANISH

In Bottles,

Unrivalled for RESTOR-ING HAIR, RENEW-ING, CLEANSING, THICKENING, and PREVENTING the Hair



IT NEVER FAILS! WASH!!

2/6 & 5/- each.

from FALLING OFF or Turning Grey, instantly removing all Scurf or Dandriff, leaving the skin pure and healthy.

Of Messrs. Low & Haydon, 330 Strand, London; Barclay & Sons, 95 Farringdon Street, London; of any Chemist or Hairdresser; or of A. P. Muddiman, Leighton Buzzard, Beds.

AWARDS: London and Vienna Exhibitions

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Wood Stains,

AWARDS: London and Vienna Exhibitions

LIQUID AND POWDER. IN

Packed in 1-lb., $\frac{1}{2}$ -lb., $\frac{1}{4}$ -lb., and 2-oz. Boxes, $\frac{1}{2}$ -pint 6d. Bottles, and bulk.

Specimen Boards and Circulars supplied when ordered.

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And of all Patent Medicine Warehousemen. Write for New Price Lists of Oil and Spirit Varnishes, Colours, Paints, &c.

OLD BOOK COVERS, &c., MADE NEW. MIRACILINE.

Original Patent Leather & Cloth Restorer. MAKES OLD BINDINGS LOOK NEW.

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All who value their Books should try it. This will restore all Leather and Cloth on Books, Desks, Dressing Cases, Office and Library Tables, &c., a. when new.

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Sold by all Stationers, Fancy Dealers, &c., throughout the United Kingdom, in 6d., 1s., and 2s. 6d. Bottles; or post free for 8, 13, or 30 stamps, from the Sole Proprietors—

BRIEN & CO., 53 TABERNACLE WALK, FINSBURY SQUARE, LONDON, E.C. To be had Wholesale of Messrs, Mather & Son, Farringdon Road; Barclay & Sons, 95 Farringdon Street; Edwards, 157 Queen Victoria Street; Maw, Son & Thompson, 77 to 12 Aldersgate Street; Millard & Sons, 40 Charterhouse Square, E.C.; Sutton, Bow Church Yard; Sanger & Sons, 150 and 252 Oxford Street; and all Wholesale Houses.

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Of any size, in the very best quality that can possibly be made. Large stock kept in London. Any buyers of these goods should compare my Samples and Prices before ordering elsewhere.

METZ, PAUL **M**anufacturers' Agent.

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66 SOUTH JOHN STREET,

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For Home, Foreign, and Colonial Markets. Wholesale only.

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PERCHA ENAMEL for Stopping Decayed Teeth.

P. A. S. is prepared to supply the above to Wholesale Houses and Chemists, in any quantity, with their name stamped upon each stick, cut any length.

To be btained of all Wholesale Houses. Price List and Samples sent post free. Special Terms to Shippers.

SPECIAL NOTICE.—The words SILVERY WHITE GUTTA PERCHA ENAMEL are registered as a Trade Mark, and will be protected.

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CLARIFIER LARD, FINE MARKOW. SUET, AND OILS.

ADEPS. PHARM. PRÆP. BENZ. P. B., &c. PRICES ON APPLICATION.

BESI VEGETABLE

For Covering Jars, Wrapping up Soap, Chemicals, Explosives, &c.

FANCY PAPER, TINFOIL, AND TINFOIL PAPER.

Samples and Prices post free on application.

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TWENS' CLARIFIED LARD, MARROW, SUETS, AND OILS.

James Ewen & Sons are induced to give further publicity to these articles, the continued demand by all who have used them being satisfactory proof "that where purity of basis" in ointments, &c., is required, they are most desirable.

By their method of purifying, the fats are not chemically altered, but simply divested of all particles tending to decomposition, they are consequently available for the most

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Adeps. Benz. B. P. and Pharm. Lard (vide P. J. Vol. I., No. 8). Direct, "for Cash only," from

JAMES EWEN & SONS' CLARIFIED FAT WORKS,

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CAUTION.—See that each package bears their label with name and weight.

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STIMULATING AND QUICKENING PLANTS, FOR THE GROWTH PRODUCING A RAPID AND HIGH DEVELOPMENT OF BLOSSOM.

This valuable Preparation is the result of several years' exhaustive trials, and it is searcely possible to speak too confidently of it. Plants of all descriptions, from the best known to the rarest and costliest, develop their blossom and foliage with extraordinary quickness and beauty when the Florvita is applied to them. So also with Fruits and Vegetables, which, under this treatment, reach perfection with great rapidity.

To ladies who take an interest in their flowers, both indoors and out, Florvita particularly recommends itself; for though chemically it represents a very highly concentrated fertiliser, it has not the appearance or character of what is known under the head of "Flower Manures," being a delicate pink powder soluble in water, with a most agreeable bouquet.

From The Gardeners' Chronicle.

"A boon which amateurs, and lady gardeners especially, will welcome. According to our experience of a small quantity, it is readily dissolved in water, can be applied to plants grown in rooms without the least objectiou, and well answers its purpose as a fertiliser."

Extract from Report of Dr. Augustus Voelcker, Professor of Chemistry to the Royal Agricultural Society of England, 7th June, 1878.

"The preparation is readily soluble in water, and perfectly free from all disagreeable smell, and it may be regarded as the concentrated essence of the most valuable manures, deprived of all the disagreeable smelling and useless products of partial decomposition which generally accompany ordinary manures."

"The facility with which it can be applied, and the small quantity required to produce a visible effect upon flowers, render it an elegant and efficacious substitute for liquid manure, guano-water, &c., for use in Greenhouses and in the Flower Garden."

"A preparation so rich in Soluble Phosphates, Salts of Ammonia, Nitrates of Potash and Soda, as your Florvita, I believe, may also be used as a highly concentrated fertiliser for vegetables and every kind of kitchen garden produce."

From The Horticultural Record.

"The results of our experiments upon plants in small pots made with this material, by contrast with equal numbers similarly treated, but with ordinary water, are truly surprising."

DIRECTIONS FOR USE.—One teaspoonful of the Florvita to be added to each gallon of water used. The plants should be watered with it once or twice a week.

Prepared only by PRENTICE BROS., Chemical Laboratory, STOWMARKET.

Sold in Bottles, 1/- and 2/6 each, and in Jars of 18/- and 36/- each.

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For all Disorders in Horses, Cattle, Calves, Sheep, and Lambs,

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The No. 2 Medicine Chest contains the following matchless remedies:-

- "CHEMICAL EXTRACT," for all External Injuries, and Ewes Lambing.

- "GASEOUS FLUID," for Colic, Scour, or Diarrhea, and Debitty.
 "RED DRENCH," for Cleansing Cows and Ewes, and for Inflammation.
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Admirably adapted for all ordinary allments among Stock, and each preparation can be had separately. Full and easy directions enclosed.
Patronised by Royalty and the leading Agriculturists of the British Empire, and awarded "Certificate of Merit" by the National Agricultural Society of Victoria, Australia. Spring Exhibition, 1871; President's Medal at the Spalding Show, July, 1872; Silver Medal, Manchester and Salford Show, November, 1874; Silver Medal, Preston Agricultural Show, June, 1875; Silver Medal, Preston Agricultural Society, Stamford Show, September, 1875; Silver Medal, Cheshire Agricultural Society, Crewe Show, September, 1875; Special Prize, National Agricultural Society of Victoria, Australia, Spring Exhibition, November, 1875; Medal, Cheshire Agricultural Society, Cheshire Show, 1876; Silver Medal, South African Exhibition, Australia, Spring Exhibition, November, 1875; Medal, Northmetrland Agricultural Society, Newcastle-on-Tyne Show, August, 1877; Silver Medal, Kuutsford Show, July, 1878; Medal, North Berwick Show, July, 1878; and Medal, Dairy Show, Loudon, October, 1878.

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The best combined Volatile and Non-Volatile

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CIRCULARS FREE BY POST ON APPLICATION

SIDDALL'S EBRA BEETLE POWDER!

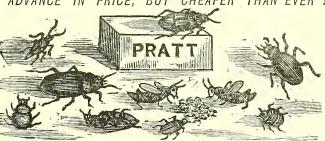
CHEAPER THAN EVER !! NO ADVANCE IN PRICE, BUT

Death to Beetles!!

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3d., 6d., and 1s. packets.



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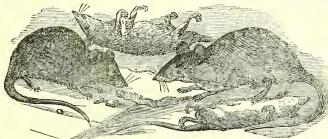
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Has been established for more than Thirty Years, and is an excellent and most satisfactory Insecticide for the destruction of household pestssuch as Black Clocks, Beetles, Crikets, Fleas, &c
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Has an immense Sale, and wherever introduced never fails to give satisfaction.—Mice appear attracted to it as by magic, eat it readily, tumble over, and die on the spot. Rats usually die in their runs.—Parties troubled with Vermin may be cleared at once, either from Stacks, Houses, or Ships.

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From Mr. THOMAS COLTON, Agent for Schly.—A friend of mine purchased a Packet of your VERMIN KILLER last night, doubting its efficacy; to-day he called in to say that he had found fiteen dead nince, and had only used part of a packet. —From Mr. EDWARD STURDY, Flemington Mills.—I duly received by post the Packet of your VERMIN KILLER, and found it as represented in your advertisement. It speedily destroyed all the mice in my granary. I enclose 2s. for two more Packets.—Leeds, November 6th 1857.—I have tried BATTLE'S VERMIN KILLER, and have found it most effectual in clearing my premises of LARGE QUANTITIES OF RATS.—THOMAS S. CROSLAND.—Mr. Stead.

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The annexed Label is at the of every Pot of the ORIGINAL and only GENUINE BLISTER.

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100 Rats destroyed for a Shilling by

BARBER'S PHOSPHOR PASTE.

WRAPPED NEATLY FOR THE COUNTER.

You would never sell any other if you were desirous of pleasing your Customers.

CATS AND DOGS WON'T EAT IT. VERMIN Rats, Beetles, best UP SMELL. Guaranteed the &c. DEAD DRY U

3d., 6d., 1s., 2s. 6d., and 5s. Tins. Also

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Kills Mice upon the spot. In packets, 3d., 6d., and 1s.

Testimonial from Her Majesty's Ratcatcher.

"Hampton, Middlesex, May 25th, 1870.—I have been more than forty years employed at Hampton Court Palace, the Royal Stables, and other buildings in and around the Royal Parks, for the destruction of rats, mice, and other vermin, and after trying all the rat poisons which I have heard of, I now use Barrers's Phosphor Paste and Vermin Killer, with which alone I am able to keep these ancient palaces and national works free from vermin.

(Signed) CHARLES SHONES."

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Are invited to send to the Laboratory for a gratis supply of

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for distribution amongst their clients. A demand for the Medicines almost invariably follows their circulation. The Pamphlet is neatly got up, and forms a welcome gift to all who keep dogs.



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At home and abroad, by forwarding

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to retail Chemists for distribution, will find a profitable demand created for MEDICINES. quantity will be supplied gratis, with name of firm inside cover, on application

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The Medicines may be obtained of the Wholesale Houses, or direct from the Laboratory for Cash.

RHODES' CURATIVE AND CONDITION MIXTURE FOR DOGS.

Especially recommended to the Nobility, Master of Hounds, Hunting Men, and Dog Fanciers.

The hest known Remedy for the effectual Cure of Distemper, Worms, Vomiting, Diseases of the Skin, will promote Appetite and Condition, giving a smooth coat and a healthy condition. Eulogised in terms of the

giving a smooth coat and a healthy condition. Eulogised in terms of the highest approbation by all who have tried it as a cure and prevention (which is better than cure).

"Caractacus," in the Sportsman's Journal, April 12, 1879, in his article on the Rearing of Young Dogs, &c., says, in speaking of the various remedies for the different Diseases of Dogs, "In all fairness we must not omit Mr. Rhodes' Mixture, which I have tried on many occasions and never knew it to fail."

Sold in Bottles, at 1s., 2s. 6d., and 4s. 6d.; for the use of large kennels in Tins at 25s., containing twelve 2s. 6d. bottles; and 4*s. Tins, containing twenty-four 2s. 6d. bottles—A GREAT SAVING. The Tins forwarded CARRIAGE PAID to all parts of the United Kingdom upon receipt of

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LOZENGES!! LOZENGES!! LOZENGES!! IN PATENT METAL SLIDE BOXES. SOLD ONE PENNY EACH.

PATENT BOXES at Patentees' Prices Empty if required.

CACHOU LOZENGES supplied in Bottles or Bags at Manufacturers' lowest Prices, either large pale pink or small bright pink.

Silvered CACHOU AROMATISE in Glass Bottles or Brass Boxes.

SEND FOR LOWEST PRICES AT ONCE.

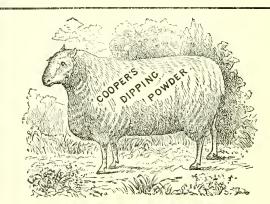
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Every Man his own Printer PRINTING PRESSES (all Iron) 25s. complete, to £10 10s.
Specimens of Work, One Stamp. Inventor

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Is soluble in Cold Water, and should be used in preference to any other Dip,

FOR TICKS, FLY, SCAB, AND FOR ALL OTHER SHEEP DIPPING PURPOSES.

This Dip has been in use upwards of 35 years, and has never been equalled by any other; it is of uniform strength, does not stain the wool, and is equally good as a Summer or Winter Dip. It is especially recommended for Dipping Lambs, and as a certain Cure for Scab.

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HESE Powders have now been before the Public for Ten Years. The large and increasing sale, together with the numerous testimonials constantly being received, prove that the public are fully alive to the fact that they are the BEST MEDICINE for DISEASES to which PIGS are subject and are also the best CONDIMENT known. They have an immense sale wherever introduced, and the Proprietor is desirous to assist all who will undertake to keep them in stock by supplying them with Show Cards, Posters, and Counter Bills with name and address thereon. They are put up in Penny Powders, each Powder a full dose; but are almost invariably sold in Packets containing Six and Twelve Powders to Retail at Fivepence and Tenpence. Retailers will be charged 40/- per Gross for Fivepenny, and 80/- per Gross for Tenpenny Packets, less usual discount, by

Hovenden & Son, W. Mather, Newbery & Son, and W. Edwards & Son, London; Lofthouse & Co., Hull Raimes & Co., York; or from the Proprietor,

JOHN W. DENNIS, CHEMIST, LOUTH, LINCOLNSHIRE, ENGLAND.

FLUID CO., Gloucester St., BIRMINGHAM. CONDY'S

From C. FOOT & CO., Battersea.

COMPOSITION.

Genuine Condy's Fluid is not and never was Permanganate of Potash as stated by our completely ontstripped competitors MARK. whose untradesmanlike manœuvre of using Mr. H. Bollmann Condy's Medals on labels to counterfeits has so disgusted and oyed the Trade. Of course it is palpable our opponents do not know how to make genuine Condy's Fluid, nor indeed any of the cheap Permanganates ch by their advertisements they appear to buy so very cheap and sell so very dear to the Trade.

T. HARVEY, Manager,
30 years working for Mr. Condy. which by their advertisements they appear to buy so very cheap and sell so very dear to the Trade.

COMPARE OUR PRICES. FOR NET CASH WITH ORDER. 49

N.B.-OUR C. F. PASSES WITHOUT COMMENT WHEN H. BOLLMANN CONDY'S IS NOT WANTED. CONDY'S Crimson Fluid 4s. per dozen, selling at 12s. to the Public.

CONDY'S Effervescing Pickup, 12s. Concentrated Vinegar (for Shipping), Albumen, Chloral Hydrate, Toilet Fluid, Water Test, Cattle Fluid, &c., as nsual. CARRIAGE PAID WHEN PICKUP ORDERED WITH FLUID. YOU SAVE HALF OF THE USUAL COST OF CARRIAGE

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Bottle Gold Powder Mixing Liquid 1 Mixing Bowl 1 Brush

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For regularly stands and gas-fittings.
For renewing ormolu ornaments.
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And for a thousand useful and domestic purposes.

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Chemists commencing Business, Fitting-up Shops, or making alterations to their premises, should first inspect Kidston's modern and unique style of manufacture, so much approved of by the Profession for its elegant appearance and superior finish.

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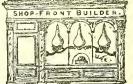
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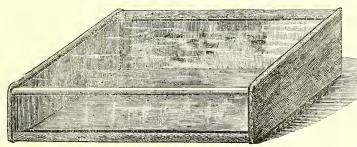
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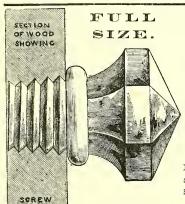
SIMPLE, ELEGANT, AND USEFUL.

Made of Solid Mahogany and French Polished; Polished Plate Glass Top and Front ¼ inch thick.

This Show Case cannot be equalled at the price.

Among the many advantages combined in this useful and inexpensive Show Case, we may mention that it is so made that two or any number may be placed together, to occupy full length of counter if required. It is made 24 in. long, 18 in. wide, 8 in. high at back, and 7 in. in front. A bright burnished Silverdine Bar has been introduced in front, which has an excellent effect; does not change colour; is always bright, and merely requires dusting. The back of Case is hinged to open, and secured by a brass spring catch. The bottom of Case is covered with blue leatherette.

Special Price, 18/6 for Cash.



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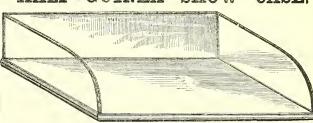
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PRICE 4/6 doz.

Borers for Making Holes, and Tool for making the Screw in drawer front, 1s. each.

A Sample Knob will be sent by Post on receipt of Six Stamps.

TREBLE'S HALF-GUINEA SHOW CASE.



10/6 Cash.

Packed in Deal Box for enclosure Free of Charge.

This neat and elegant little Show Case is 14 inches long, 10 inches back to front, 3 inches deep inside, with clear bent glass top, glass ends, silvered glass mirror back, the bottom lined with blue velvet, and edged with ebony.

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BATTERSEA WORKS. ONDON,

THESE Crucibles (MORGAN'S PATENT) were the only ones to which Prize Medals were awarded in London, 1862; Dublin, 1865; New Zealand, 1865; and Oporto, 1865. They have been in use for many years in the various Government departments of England, France, Germany, &c., and have been adopted by most of the large Founders, Engineers, Railway Companies, and Refiners at Home and Abroad. The capabilities which have now for so many years distinguished

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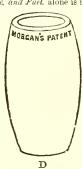
are the following —Their quality is uniform. They withstand the greatest heat without danger. Their average durability for Gold, Silver, Copper, and other ordinary metals, is 40 to 50 pourings: in some cases over 100 bave been obtained. They never crack and beat more rapidly than any other kind. One annealing only required. Change of temperature has no effect. They can, when hot from the furnace, he dipped in cold water with safety. The saving of labour and metal is very great. In Sheel Melting the Saving of Field has been demonstrated to amount to a ton and a half to every ton of Steel fused. For Zine they last longer than iron pots, and save the great loss which arises from mixture with iron. Those for Malicable Cast Iron show an average working of several days, doing each day nearly double the work of any other Crueible.

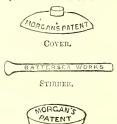
As these Crucibles last longer than others, it follows that the Saving of Metal must be great, because to each worn Crucible a quantity of metal adheres. In fact, comparing Morgan's Patent with other Crucibles, the Saving of Metal, Time, and Fuel, alone is more than equivalent to their Cost.











STAND

- A.—Made in sizes varying from 2 ozs. to any required capacity, and are marked by the quantity of kilogrammes they will contain—thus: No. 5 wike contain 10 lbs. of copper; No. 100, 200 lbs.; No. 200, 400 lbs.; No. 300, 600 lbs.; No. 400, 800 lbs.; No. 500, 1,000 lbs.

 B.—Duffer in shape, but correspond in all other respects with A. and are similarly marked.

 C.—Made in sizes varying from 20 lbs. up to 300 lbs. capacity, are marked in English pounds—thus: a Crucible marked 60 will contain 60 lbs.

 D.—Made expressly for melting Steel, in various sizes.

COVERS—Are found of service in many descriptions of melting, the metal being kept free from outside impurities and oxidation. STIRRERS—Are used by melters of precious metals for stirring and amalgamating. STANDS—Placed under the Crucibles, hasten the operation of melting, and obtain even bearing above bars.

MORGAN'S PATENT CRUCIBLES

CAN BE MADE

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SIZE ANY TO

REQUIRED.

STAMPED.

MARK. REGISTERED TRADE

CAUTION .- CARE should be exercised that users obtain Morgan's Patent Crucibles.

MANUFACTURERS: SOLE

THE PATENT PLUMBAGO CRUCIBLE COMPANY, BATTERSEA WORKS, LONDON, S.W.

THE GREATEST SUCCESS EVER ACHIEVED IN GREAT BRITAIN.

A LITTLE more than a year ago an American gentleman came to London for the purpose of introducing a New Patent Medicine.

Without an acquaintance, and without a friend (save a little gold, if that may be called a friend) he made a start, and to-day the sales of his Medicines are more extensive than any other Patent Medicine in the Market.

The following will show with what avidity
the article is taken:—

CHAS. BROMLEY, Chemist, Liverpool, has sold at retail, within 4 months, £102 worth.

CHAS. BRITTEN, Chemist, Birmingham, has sold at retail, within 3 months, £79 worth.

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LEVI TODD, Chemist, Preston, has sold, within 4 months, £300 worth.

Messrs. Ismay & Sons, of Newcastle-on-Tyne, sold £400 worth the first 2 months they were Agents.

The following Letters will show how the Article takes with Retail Chemists that have circulated the Bills:—

Mr. Caleb Weeks, Chemist, of 83 Lower Union Street, Torquay, writes:—"The almanacks (1,000) have been carefully distributed. I have sold of the Curative Syrup nearly five hundred bottles during the last ten weeks."

J. Philp, Chemist, Wadebridge, writes:—"I have sold several dozen of the Syrup."

J. A. S. Dunlor, Chemist, Lockerbie, writes:—
"As to the result of the distribution, I am selling a lot of your Syrup and Pills, and it will pay you well."

W. Dixon, Cottingham, near Hull, writes:—"I have had the 1,000 almanacks distributed, one being sent to every house here, and to the surrounding neighbourhood, and I must say I have sold more of the Syrup and Pills in this short time than any Patent Medicine I have ever had before. I make no charge for distributing, as I consider this is to our mutual advantage."

WHEREVER THE BOOKS ADVERTISING THE MEDICINE ARE CIRCULATED THE SALE IS ENORMOUS.

I will supply Memorandum and Diary Books free of charge to all Chemists (at home or abroad) who will engage in the sale of the Medicines, and who will promise to have them circulated faithfully, which, when done, will create a sale of the Medicine that will outstrip any other article in the market. The article is called Mother Seigel's Curative Syrup and Seigel's Operative Pills for the Cure of Dyspepsia.

AGENTS WANTED IN ENGLAND OR THE COLONIES WHERE WE HAVE NONE.

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Wholesale & Export Confectioner,

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MEDICATED LOZENGES, REFINED LIQUORICE, JUJUBES, &c.

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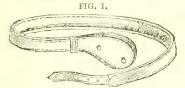
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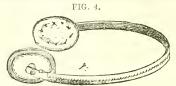
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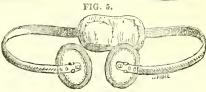


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The Concentrated Extract of Freshly-Malted Barley, Wheat, and Oats.

"Sweet and delicious," free from Alcohol, and possesses from five to ten times more value than any alcoholic or fermented Extract of Malt.

CONCENTRATED EXTRACT OF MALT, prepared upon Liebig's principles, is a well-recognised nutritive and restorative remedy in the German Pharmacopæia, but it has not hitherto been largely introduced into England. It possesses a wide range of valuable qualities.

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ONE FLUID OUNCE OF THIS EXTRACT CONTAINS MORE OF THE VALUABLE PROPERTIES OF MALT THAN A QUART OF THE BEST ALE OR STOUT.

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"During the last few years Malt Extract has almost entirely taken the place of Cod-Liver Oil in the treatment of Consumption and other wasting diseases at the Basle Hospital, and we have as yet found no reason for returning to the use of the latter remedy."

"Wheat and Oats stand first among our list of cereals in combining all the elements in proportions necessary to support animal life. They are especially rich in muscular and fat-producing elements."—Baron von Liebig.

THE "KEPLER" COD-LIVER OIL WITH MALT EXTRACT.

(OLEUM MORRHUÆ cum EXT. MALTI "KEPLER.")

It is generally admitted by the Medical Profession that PURE NORWEGIAN COD-LIVER OIL is a most valuable nutritive and alterative remedy in Consumption and other wasting diseases, but its disagreeable flavour and after-taste render it objectionable to many persons, and when taken alone, it is so rich that it is frequently found to derange the digestion; but by combining it with the "KEPLER" MALT EXTRACT, we obtain a highly Concentrated and Nutritious Food, possessing all the valuable properties of both substances; the excess of fatty matter is reduced to a proportion which can be easily digested, and the Compound is exceedingly palatable and leaves no after-taste.

MALT EXTRACT being rich in nitrogenous elements, or flesh-formers, and Cod-Liver Oil in Carbohydrates, or fat-producers, this compound is found to be nutritious in the highest degree, and its use is calculated to lead to a progressive increase in strength and weight in the case of persons suffering from wasting diseases or imperfect nutrition.

The marked benefit following the use of this preparation in pulmonary and wasting diseases, emaciation, cough, hamorrhage, debility, and all cases of defective nutrition, will be naturally anticipated by the Physician.

Oblige by mentioning "KEPLER," to ensure correctness in dispensing.

Put up in 12-oz. and 24-oz. Bottles, and dispensed at 2s. 9d. and 4s. 6d. In 5-lb. Bottles for Hospitals and Surgeons.

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The Price for the New Oil is the same as that charged last year, viz :

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We supply samples and Circulars Free of Charge to the Trade for Medical Distribution, also Retail Circulars with uame and Address of Customers.

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Blotting-paper may be applied at the moment of writing.

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${f BEWLEY} \ \& \ {f DRAPER}, \ {f Limited}, \ {f DUBLIN}.$

See "CHEMIST AND DRUGGIST," December 15th, 1874.

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PHOSPHORISED COD LIVER OIL. Originated by SAVORY & MOORE. The advantage of this preparation over the imitations of it consists in the ability to administer a sufficient dose of Phosphorus without the admixture of a large quantity of Cod Liver Oil. Supplied in Bulk or Small Bottles.

PHOSPHORUS PILLS. 1-32nd of a grain, or any other strength required, non-resinous and

PANCREATISED (Digestive) COD LIVER OIL. By combining the Pancreatic Juice with the Oil, the digestion of the latter is easily and rapidly effected, nausea is prevented, and the beneficial properties of the Oil are increased.

PANCREATINE (Powder or Granules) represents the active principle of the Pancreatic Juice, by which fats and oils are digested and assimilated. In Bottles, Wholesale and Retail.

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Containing the highest amount of nourishment in the most digestible and convenient form.

THE MOST PERFECT SUBSTITUTE FOR HEALTHY MOTHER'S MILK.

N.B.—This Food has only the sugar natural to healthy milk, and is therefore free from the baneful sweetness of highly sugared Foods.

MOORE, 143 New Bond Street, LONDON, W. AND ALL CHEMISTS THROUGHOUT THE WORLD.



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The annual meetings of the Pharmaceutical Society and of the Trade Association were held last month. At the Pharmaceutical meeting a vote was taken on the question of the admission of ladies to membership. Their claims were advocated by Mr. Wade and opposed by Mr. Vizer. The votes in favour of their admission were 78, against 81.

Mr. Thomas Barclay, of Birmingham, was elected president, and Mr. Hampson, of London, vice-president, of the Trade Association.

Mr. G. W. Sandford has been elected president of the Pharmaceutical Society in place of Mr. John Williams, and Mr. G. F. Schacht has succeeded Mr. Savage as vice-president.

The new members of the Pharmaceutical Council are Messrs. Richardson (Leicester), Squire (London), and Symes (Liverpool). These replace Messrs. Betty & Hanbury, who did not compete, and Mr. Cracknell, defeated.

The London and Provincial Supply Association have paid to the solicitor of the Pharmaceutical Society the taxed costs and the 5l. penalty inflicted on them for contravention of the Pharmacy Act, which means, we presume, that they have abandoned their threatened renewal of the action.

The Irish Pharmaceutical Council have resolved to apply for a new Act to amend their existing one in certain particulars.

We give some particulars of a crisis which has occurred in the business position of the Pharmacic Centrale of France, one of the most important wholesale drug businesses in Europe. A new start has been made, the capital having been nominally reduced by 25 per cent. in order to bring it more in accord with the actual value of the assets.

An important trade-mark victory has been gained by Messrs. A. Rowland & Sons in Paris, several French perfumers having been convicted of selling fraudulent imitations of their macassar oil.

Our medical contributor continues to write on Diseases of Children (page 237). "Pyrogenous Products" is the title of an interesting paper on page 239. Pharmacy in Spain is described on page 242. A number of Temperance Beverages and the analysis of various Washing Powders are referred to on page 243.

The eighth annual dinner of the Pharmaceutical Society was held on May 20, when Professor Tyndall, Mr. Erasmus Wilson, and Professor Williamson were among the speakers. The conversazione on the next evening was attended by about 2,700 persons. The members of the Irish Pharmaceutical Society dined together on June 4.

A large number of poisoning cases are reported this month. Amongst others are reported the suicides of the traveller for a London firm of druggists' sundriesmen at Southport, and a chemist and his wife at Lambeth.

A curious story, illustrative of animal memory, is sent to us from Tenbury. An elephant in a menagerie was relieved by a chemist from illness some five years ago. The menagerie revisited Tenbury last month, and seeing her doctor in the street as she passed by, the elephant affectionately greeted him, with an evident recollection of the previous acquaintance.

The committee of the Medical Society appointed to investigate the dangers of arsenical wall papers have issued to a large number of medical men a series of questions on the subject.

The Liebig's Extract of Meat Company have been able to withdraw from their reserve funds sufficient capital to enable them to present to every shareholder one bonus share for every three he now holds.

Petroleum has sold during the month down to 6½d., but is now a little firmer. The low price is in consequence of the enormous exportations, nearly 100,000,000 gallons having been shipped from New York up to the end of May, or 25,000,000 gallons more than in the first five months of 1878.

We wish to direct the attention of advertising firms to the arrangements we have made for the insertion of price-lists or circulars in our next number (July 15). A circular printed on tinted paper and stitched up with a journal like The Chemist and Druggist, with a circulation to a special class of readers, is, we claim, by far the most effective method of advertising which can be adopted by those ready to do business with that class of readers. We circulate such circulars at not more than one-fourth the price at which they could be posted by the firms who send them, and in addition we guarantee the selection of at least 10,000 good names.

Pharmacalia.

LADY MEMBERS OF THE PHARMACEUTICAL SOCIETY.

When lovely woman stoops to folly, it is clear that in future she must not add to her unwisdom in seeking for the membership of the Pharmaeeutical Society. Henceforth she must rest content with her business and her gains, her only care being to increase her store, and keep her solitary self at home. We imagine that if at the first, when two or three names appeared as claimants, they had been allowed, though females, to be admitted as a thing of course, excitement about the matter would have dropped, and neither Mr. Wade nor Mr. Vizer would have had an opportunity for a speech. It is satisfactory to find that the gift of eloquence has not died out amongst us. Nothing could have been in better taste, or more powerfully expressed, than the pleadings of the two gentlemen just named, and not the least merit of their arguments was that each steered clear both of sentiment and facetiousness. Mr. Wade's resolution was short and to the point. "That all persons duly qualified (irrespective of sex) being eligible for admission into the Society in accordance with the bye-laws thereof, this meeting is of opinion that ladies should not be excluded from participation in the privileges of the Society." To this Mr. Vizer moved as an amendment, "That this meeting is of opinion that inasmuch as registration under the Pharmacy Act secures all trading rights to persons so registered, and membership of the Pharmaceutical Society in no way increases those rights, it is nnnecessary so far as females themselves are concerned, and undesirable on the part of the Society, to introduce so complete a change in its constitution as would be involved by the admission of females as members, associates, apprentices, or students of this Society." The arguments on both sides are so familiar that it is unnecessary to repeat them here.

Hands were counted; there seemed a majority of one against Mr. Vizer; but the division showed 81 for the amendment, and against it 78. We hold to our original conviction, that, granting the calling of pharmacy to be a fit one for the ladies, if they fulfil the required legal conditions, and pass the same examinations as do men, they may reasonably expect not to be refused the understood further privilege of membership. To say this membership is unimportant is disproved by the existence of the Society. That it has been rejected as a privilege by a great number shows that in this case ladies are superior to the great number and have more sense. Trade interest is not the sole advantage concerned in membership, for our Society may rank with the Chemical, the Linnean, and other bodies, membership in which secures both social standing and intellectual gain. Granting, on the contrary, the ealling of pharmacy not to be a fit one for the ladies-and this is the opinion of Mr. Sandford—then, with him, we can honestly withhold any extra inducement to pursue a career unsuited to their womanhood. We individually believe in the fitness of pharmaey as a female occupation, but we should be sorry to charge any man with prejndice and narrow-mindedness who thought otherwise.

A NICKEL COINAGE.

"Nickel," says Professor Attfield, is a word derived from nil, and is a popular German term for "worthless." The mineral now known as nickel ore was formerly called by the Germans Kupfernichel, or false copper, and when a new metallic element was found in the ore, the name "nickel" was retained. This metal, once supposed to be useless, has long since asserted its claim to be employed advantageously

in the arts, but it would hardly have been anticipated that petitioners from a penal colony should count upon it as a means of prosperity for the settlement. An Englishman (Mr. Higginson) has proposed to eolonise New Caledonia, as Englishmen before his time have colonised Australia. After a long residence in France he went to Nauméa, and set himself without delay to reopen at Thio the working of the niekel mines, for which purpose he engaged numerous assistants. He undertook, moreover, to put in working order the smelting furnaces at Chaleix which are fed by these mines. Employment is thus given to a number of unoccupied persons. This new industry having revived the question of the commercial capabilities of nickel, several of those interested have addressed a petition to the Minister of Marine, and directed his attention to the great advantages thus offered to the colony, and snggested the issue of current coin in nickel to be used throughout the French territory in place of the present copper coinage. This monetary innovation has already been adopted in and other States, and might also, according to the view of the applicants, be introduced into France. Nickel would yield a coinage less heavy than copper, cleaner in use and smaller in size, inoxidisable, and easy to manipulate. There is every reason, judging from actual experiment, the success of which was confirmed at the International Exhibition, to hope that this metal may be accepted. Of course, to extract nickel is one thing, and to find a market for it, another. Were such a scope for its utilisation afforded there would be a certain return for labour expended; the colony would be enriched, and might speedily hope to do without assistance from the mothercountry. Besides which, the re-opening of the mines would give abundant work to those convicts who had worked out their sentence, and would help, so far as New Caledonia was concerned, to solve that most difficult of all problemsin what way to provide an honest livelihood to the ticketof-leave man. It would open one door, at least, when so many are of necessity closed against him.

AN ADULTERATION ACT FOR THE UNITED STATES.

Dr. Edward R. Squibb, of Brooklyn, whose industry in promoting the advance of pharmacy is remarkable, has forwarded his tractate on "Proposed Legislation on the Adulteration of Food and Medicine." He wishes the subject to be widely and temperately discussed throughout the States. Under the form of government which exists in America a United States law would be inadmissible, but he indulges the hope that were such a law enacted in some large state like New York, other states would in turn follow the example. In order to pave the way for such a desirable end, the doctor submits a rough draft of a proposed law to prevent the adulteration of food and medicine, and to create a State Board of Health.

The writer believes that any law to be effective and of easy application must carefully avoid certain points of difficulty which have been brought ont by the British law, particularly as exemplified in the Sale of Food and Drugs Act of 1875. He suggests that some legally-trained mind should examine analytically all the convictions and failures to convict which have occurred under this Act; and all the discussions and recommendations of the British Society of Analysts charged with its execution. To this he would add the report of a commission of the German Empire charged with making investigations during two years past with a view to a law for Germany. Dr. Squibb sums up his introductory remarks with the sensible advice of avoiding inexperienced legislation, which can only end indisappointment. He counsels that America should take full advantage

of that prolonged experience by seuding a trained expert to earefully examine the revised English system, and thus a proper law might doubtless be framed, far more efficient than auything that could emanate from mere inexpert suggestions. "In this country" [America] "much time has been lost to this subject by hasty enactments passed without full knowledge of the difficulties to be met, and without full investigation of what has been already done in the way of attempts and failures, or without providing effective means for enforcing the laws thus passed."

New York and the other States have long ago rolled away the reproach of the saying, "Good enough for the American market," a phrase which we find to be historical 30 years back. It will not grieve the most sensitive to contrast the present endeavour to maintain absolute purity with the record of old times. The flagrant adulteration of imported drugs caused the College of Pharmacy of the City of New York to circulate a form of memorial to the Senate and House of Representatives. They invited the co-operation of the College of Philadelphia, and other Colleges of Mediciue and Pharmacy; they, moreover, prayed the Society in England to join in the attempt to put down the practice of adulteration. The memorialists desired that a law might be enacted declaring that all imported articles intended for medical use which might appear to the proper Customhouse officer to be spurious, counterfeit, or adulterated should be subject to competent inspection, and, if found to be of base character, confiscated and destroyed. On June 26, 1848, an Act was passed by the Senate and House of Representatives, to prevent the importation of adulterated and spurious drugs and medicines.

A Select Committee of Iuquiry having beeu previously appointed, it was shown that America had become the grand mart and receptacle of the refuse merchandise from the European warehouses, and from the whole Eastern world. Not a single pound of pure Aleppo scammony had passed the New York Custom-house in 12 months. Blue pill was daugerously adulterated; opium, calomel, and sulphate of quinine were in the same condition; compound extract of colocynth was imported which contained not one particle of colocynth; while thousands of pounds of worthless rhubarbroot were sent annually by foreign speculators. The evil had reached a crisis, and circular instructions were issued to collectors and other officers of the Customs.

In referring to this gloomy page of the history of Pharmacy—a page which has been happily eancelled—we have barely space to quote from Dr. Squibb's notes on the working of our own legislation. To prove some of the difficulties met with in the application of restrictive laws in large communities, the Doctor mentions that one court ruled that the sale of diluted gin, though proven, was not to the hurt of the consumer, but that the less gin he took the better for him; therefore the conviction failed. Convictions for the sale of milk of sulphur with 50 to 60 per cent. of plaster of Paris were had, the fines imposed varying from 6d. to 6l.

Ouly nominal fines were inflicted for the sale of diluted sweet spirit of nitre, owing to superior expert ability for the defence. "Much difficulty has been encountered for want of standards for eomparison, and in regard to the value of different processes of analysis; and Somerset House, as the appellate authority in analysis, has repeatedly reversed decisions of analysts, presumably from lack of proper ability and skill in the latter."

Lastly, the Doctor alludes to a circumstance with which recent transactions have made us familiar. Analysts have taken the initiative, and bought their own samples for analysis, and when necessary entered upon prosecution. "Then came the sweeping decision and failure to convict in

such cases, on the ground that an adulterated article sold to an analyst for examination was not sold to the hurt of the purchaser, as required by the law for conviction. This decision was re-affirmed by an appellate court of high authority, but has just now been re-opened and re-argued, and temporarily reversed, pending the action of Parliament in amending the law." We wish the Doctor and his friends all success in the endeavour to pass a measure for the United States which shall avoid the injustice and absurdity which have characterised the working of the English law.

THE DUMMY MODEL STUDENT.

There was once a pillar in a medical lecture-room at Paris which was made responsible for many sins. It was a column of a solid order of architecture, and well adapted for purposes of concealment. We speak of five and twenty years ago, and ean testify to its existence at that date. The story went in the current literature of the Quartier Latin, and in students' conversation, that this pillar often served as a couvenient excuse for non-attendance. "I have not seen you lately," would say the Professor, when his official signature was requested. "Sir," replied the delinquent, "I was indeed not absent; I had the misfortune to be behind the pillar." Inspired, perhaps, by this traditional anecdote, the Paris students have devised a plan for bringing into ridicule the very large elasses which are held at the various Lycées, many of which contain more than 90 scholars. That a professor under such circumstances should recognise the several members of his flock, or give them due attention, is manifestly impossible. More especially is this true, as a man deep in book learning has a habit of wearing spectacles, presumably not by way of ornameut. It thus happens that a few favoured students monopolise consideration, while the less promising are left to their own devices. To remedy this evil by a practical exposure the following comedy was played :-

M. Pierron (the name is fictitious) was a savant doubly short-sighted. The amphitheatre where he gave his lessons was for him a place full of mystery: he questioned only the occupants of the front rows, but to make amends, all the written exercises were the object of his minutest care. He read them from the first line to the last, and the next morning commented upon the productions with elaboration.

The students hit upon the plan of creating an imaginary new scholar, whom they called "Piedefer," and his maiden paper was entrusted to many hands. Duly signed, it was presented to the Professor, and at the top the composition bore the classic heading, "Lege queso," which being interpreted signifies—Please read.

Faults of spelling alternated with correct sentences, and while in the whole production there was much to blame, there was much also to justify encouragement.

"Gentlemen," said the Professor solemnly, "we have a new companion, who has a good deal to learn, but who has capabilities. With work and continuous application I doubt not but that he will succeed."

A week afterwards decided improvement had taken place—the main facts were correctly given; the details only were defective. In a fortnight further advance was quite perceptible, the head students having put their wits together in order to effect so beneficial a result. The esteemed Professor was delighted. "Observe," said he, "what labour and application can accomplish. Tremble, you others, for your reputation"—and having thus unburdened his full soul, with a sudden inspiration he exclaimed—"Come hither, Piedefer, and answer the questions which I am about to put." There was a dead silence through the class, when some timid voices volunteered an explanation. "He was taken ill, sir, yester-

day, and cannot come." "Alas!" said the Professor, "how often do we find that rare intelligence has to fight against a sickly constitution!"

A week later the recovery of Piedefer was announced, at least, so far as that the brilliant student might be represented by an irreproachable school exercise. The Professor would have embraced his pupil on the spot and in the presence of all his associates. Unfortunately there had been a relapse, and as the plot must soon have been detected, the following morning there was handed in the usual lithographic announcement of his death. The worthy man was visibly affected, and proceeded to pronounce a funeral oration worthy of Bossuet. Thus he spoke. "The student Piedefer deserves our united regret. He has passed away like one of those meteors which shine for a moment only to be extinguished in a darker night, and to be forgotten. Like Cæsar, he might have said, 'Veni, vidi, vici.' But for the premature death of our gifted friend, the rest of you would have had no chance. We scarcely had the time to know him; the dnty of monrning over his memory remains. May his progress teach you, my young hearers, how much in a brief time perseverance and obedience to the connsels of a master can achieve. Compare his last copy with his first, and then say to yourselves, 'No one need despair.' Piedefer, noble victim of work and assiduity! in my own name, and in that of all, I bid thee farewell."

So ended the discourse, and as "a verse may find him whom a sermon flics," the harmless pleasantry may stand in better stead than a formal protest.

The Pharmacentical Council.

THE ANNUAL MEETING OF THE PHARMACEUTICAL SOCIETY,

THE President took the chair at noon, about 150 members being present. The business was commenced by a short address from the President, who referred to the recent action against the London and Provincial Snpply Association, the use of apothecaries' weights and measures, the Hanbury and Benevolent Funds, and the fund for the relief of pharmacists at Szegedin.

The report was then taken as read, and its adoption was moved by Mr. Vizer and seconded by Mr. Owen.

The opening paragraphs of the report may be here reproduced:

Since the annual meeting of 1878, much agitation has prevailed in the Pharmaceutical Society, and the Council arc quite aware that they labour under an injurious but nnjust suspicion of having been nnmindful of the trade interests of pharmaey, interests so important to each individual member of Council as well as to the Society generally, that such negligence would indeed be inexplicable. Evidences of this feeling of distrust have been so distinctly and recently pronounced that it seems desirable to disabuse the minds of those by whom it has been entertained, before proceeding to report the ordinary business of the year. It is the dnty of those to whom are confided in trust the interests of body corporate, to give dne consideration to the purported objects of the institution over which they preside, as well as to gnard the rights and privileges pertaining thereto. Thus when individual members of the Pharmaceutical Society were threatened with prosecution by the Society of Apothecaries, or rather by the "Medical Defence Association" acting through that Society, it behoved your Council to consider in what way they could best proceed to fulfil this twofold obligation.

Looking back to the principles ennuciated by the founders of the Pharmaceutical Society it must be apparent to all

that there never was the slightest intention on their part to embrace "medical practice," properly so-called, in the business of a ehemist and druggist. The very words of the Pharmacy Act expressly state that the examinations of the Society "shall not include the practice of medicine, surgery, or midwifery," and the expressed desire was so to elevate the business of pharmacy that those who practised it should find it both more dignified and remunerative to confine themselves to their legitimate pursuits. By this means it was hoped the business of dispensing would ultimately fall more completely into the hands of chemists. Gradually medical practitioners are ceasing to prepare their own medicines, and are but too glad to do so where opportunities serve; but this change cannot be accomplished all at once, and the desired end would be considerably deferred by any spirit of antagonism between members of the medical profession and chemists. Notwithstanding this, the Conncil have never been nnmindful of the fact, that in the everyday exercise of his business the chemist must more or less give such advice over his counter, as by a strained interpretation might be ealled "Medical practice," or as Baron Bramwell expressed it, a breach of the law for which it would be very unreasonable to prosecute him. The Council, therefore, determined not to stand forth to protect alleged offenders, whoever they might be, and however they might have conducted their business, relieving men of all individual responsibility and frustrating to some extent one object of this Society. On October 4, 1876, the following resolution was passed:-

That this Council is prepared to consider the case of any chemist and druggist who is threatened with vexatious proceedings for alleged infringement of the Apothecaries Act, and if circumstances warrant, to defend the same.

And on August 1, 1877, when a specific case was brought before the Council, it was resolved—

That this Council authorises its solicitor at his discretion and at the expense of the Society, to defend the gentleman referred to in the threatened prosecution by the Apothecaries' Society.

The case on which this resolution was passed was not further proceeded with by the Society of Apothecaries.

In its desire to use every effort to avert vexatious prosecutions it appeared politic for the representative body of the Pharmacentical Society to come to a fair general understanding with the Society of Apothecaries to prevent such prosecutions. This was the more easy as, although the Society of Apothecaries might occasionally be nrged to prosecute by the pressure of some Defence Association, they were themselves ready to admit as fully and freely as it was nrged on them by others that what has been termed "eounter-practice" by ehemists has ever been and ever must be a necessity, a practice not to be regarded as an offence. Absolutely to define the boundary of this debateable land seems to be impossible, but by the communications which have taken place between the solicitors of the two societies the Council feel convinced that the best interests of the members of the Pharmacentical Society have been promoted and the honour of the Society npheld, and that in due time this will be acknowledged by those who have been lond in their denunciation.

During the past year upwards of 350 cases of infringement of the Pharmacy Act have been reported to the Conneil. The great majority of the offenders yielded to the notices of the Registrar, and discontinued their illegal praetices. In several instances, however, it has been found necessary to employ the Society's solicitor to enforce obedience to the law. When accused persons undertake to discontinue their offences it is the Registrar's duty, after a stated interval, to ascertain that the undertaking has been faithfully kept; it is hoped local secretaries will aid him by observation and information.

Then followed an allusion to the action of the Society against the London and Provincial Snpply Association. The examination, the museum, and library were dealt with, and the Daniel Hanbury fund, the evening meetings, and the School of Pharmacy were referred to with satisfaction. The Committee to amend the Pharmacy Act was mentioned, and references to the Dental Practitioners Act, the regulations for weights and measures, and the Benevolent Fund concluded the report. The following was the

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	I_{ℓ}	Receipts	•							
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Branch of the Society in Scotland:		421	U	ð
Assistant-secretary in Scotland—Salary 130	0 0			
71 111 000				
199 1				
Current expenses 132 14		265	14	5
Postage		443	2	9
The		43	5	2
Register		537		
Rent, taxes, and insurance of plate glass		396		5
Returned subscriptions to Associates		17	6	6
Stationery, engraving, printing, and office			0	30
expenses		303	16	7
Salaries:—		500	10	•
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	0 (
Assistant-secretary 287 10	0 0			
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		1.543	7	6
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Council prizes and herharia medals		8	12	6
Snndries		9	8	11
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Council		242	14	3
Refreshments for Council		38	- 8	9
Balance, December 31, 1878:—				
In treasurer's hands 1,905 1				
London & Westminster Bank. On deposit 1,500	0			
· · · · · · · · · · · · · · · · · · ·		3,405	15	5
	£	12,090	16	4

Mr. Mackenzie (Edinburgh) asked a few questions about some of the minor expenses, and then criticised the conduct of the Council generally. He wanted to see a single examination only, the distinction between Major and Minor to be abolished. He also urged that a demand should be put forth for an equal voice in drawing up the next Pharmacopecia.

Mr. URWICK criticised some of the financial details, especially the increase of fees to examiners and the extra expenditure which had been caused by the journal. On this point some confusion arose from the fact that the journal item appears on the balance-sheet as a loss, none of the money paid as subscriptions to the Society being credited to that account.

Mr. Shepperley made a short but telling speech. He alluded to the unjust remarks which had been made by prominent members of the Society in reference to himself, and while disavowing any bitterness of feeling, said he thought the Council might at least have made independent inquiries into his case, instead of taking information from a source which was not reliable.

Mr. PASMORE said that he first had brought before the Council the case of the London and Provincial Supply Association, and complained that the Assistant Secretary had treated him somewhat cavalierly.

Subsequently, the PRESIDENT, on behalf of the Assistant Secretary, said that Mr. Pasmore's facts had been laid before the Council at the earliest possible opportunity.

Mr. Broad did not understand the journal account, and he also expressed his opinion that there was not much inducement for students to pass the Major examination.

Mr. WHITTLE thought these criticisms of paltry items were unworthy of the meeting, and Mr. RANDALL vigorously defended the Council, who, he said, had a heavy weight of responsibility on them. He wished the Council to believe that there was a large amount of gratitude in the country felt for their services. After a few more desultory remarks the report was adopted.

Mr. Wade then moved a resolution, of which notice had been given, advocating that persons otherwise eligible for admission as members of the Pharmaceutical Society should not be excluded on account of their sex. He urged the adoption of this motion simply as an act of justice, and he pressed the members to set aside both sentiment and prejudice. The proposal was seconded by Mr. Postans.

A negative was moved by Mr. Vizer and seconded by Mr. Mackenzie.

Messrs. Hampson, Humpage, and Savage spoke in favour of the motion, and Mr. Sandford argued against it. The

speeches on both sides were listened to with much weariness and impatience, and after Mr. Wade had replied a show of hands was taken, which the President declared was in favour of the motion by one vote, 66 to 65. A division was demanded, and this resulted in the following manner:—

For Mr. Vizer's	amendmo	ent		 81
Against	• • •		• • •	 78
Majority				 3

The motion was therefore lost.

After the completion of some formal business the meeting was made special in order to approve of certain modifications in the bye-laws in reference to the payment of subscriptions.

THE NEW COUNCIL.

An adjourned meeting of the Society was held on May 23 to receive the report of the scrutineers appointed to examine the voting papers. The official details were as follows:—

Voting papers reported by the Secretary to have been issued	3,586
Voting papers issued but not returned.	1.854
Voting papers received Voting papers disallowed:	1,732
Informal	
Received by post too late	
Envelopes unsigned by voters	17 126
Voting papers registered	1,606

Result of the Poll.

Churchill				1,288	Richardson	1			1,015
Symes				1,271	Robbins	• •			904
Hampson				1,228	Squire	• •	• •	• •	798
Woolley				1,217 $1,161$	Cracknell				767
Shaw Savage			• •	1,158	Spink				727
Bottle				1,098	Owen				726
Atkins				1,078	Fitch	• •	• •		701 630
Rimmingt	on			1,058	Butt Horncastle		• •	• •	618
Frazer		• •		1,053 1,016	Horneastie		••	• •	010
Williams				1,010					

The first fourteen on the above list, together with the seven who remained on the Council by ballot, form the Council for the current year. The seven are Messrs. Gostling, Greenish, Hills, Mackay, Sandford, Schacht, and Slipper (rice Fairlie resigned).

THE MEETING OF COUNCIL.

The first meeting of the new Council occurred on June 4, all present except Messrs. Rimmington and Slipper.

The first business was the election of a new

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The vote was taken by ballot as usual, and the choice fell on Mr. Sandford as President, and Mr. G. F. Schacht as Vice-president. Complimentary speeches in reference to the retiring President and Vice-president were made, and votes of thanks for their services were passed. For the post of

PRESIDENT AND VICE-PRESIDENT.

TREASURER

Mr. Greenish was re-elected.

The Secretary and Assistant-Secretary, Editor and Sub-Editor were also re-appointed.

WEIGHTS AND MEASURES.

A letter from the Board of Trade was read, enclosing a draft schedule of apothecaries' weights and measures which it was proposed to legalise. These consisted of the following—Weights: 1, 2, 3, 4, 5, 6 grains; 1 and 2 semples; ½, 1, 2, 4 drachms; 1, 2, 4, 6, 8, 10 ounces. Measures: Minims, 1 to 60; fluid drachms, ½ to 16; fluid ounces, ½ to 40. The President said his only observation on the schedule was that the ½ scruple was omitted. Mr. Williams said it had been included in the list submitted by the Council to the Board. Mr. Bottle said without it 17 grains could not be weighed with one set of weights. (6, 5, 4, 2 = 17; how's

that, Mr. Bottle?) The President undertook to write to the Board of Trade, to suggest the addition of the ½ scruple weight to the schedule.

Addition to Register.

Mr. Henry Charlton, 21 Dock Street, Sunderland, he having fulfilled the necessary conditions.

COMMITTEES.

On the motion of Mr. Shaw it was unanimously agreed that provincial members of the Council should be paid their travelling expenses when they attended committee meetings other than those on the days preceding the Council meetings. The various committees were then appointed. On the motion of Mr. Hampson a special Pharmacy Act Amendment Committee, consisting of Messrs. Bottle, Gostling, Greenish, Hampson, Mackay, Symes, Williams, and Woolley was appointed. The President preferred that this should be a snb-committee of the General Purposes Committee, but the majority thought it would be more convenient that this committee should be independent.

GIFTS TO THE MUSEUM.

Among others some carbolic acid specimens from Messrs. C. Lowe & Co., and a sample of opium from Mozambique, being a portion of the first crop ever eollected there, from Messrs. T. & H. Smith & Co. were announced.

PAYMENT OF COSTS AND FINE BY THE LONDON AND PROVINCIAL SUPPLY ASSOCIATION,

The President read a letter from the Solicitor, announcing that he had received the taxed costs and the 5l penalty from the defendants in the recent trial of The Pharmaceutical Society r. The London and Provincial Supply Association (Limited).

THE ANNUAL DINNER

Of the members of the Pharmacentical Society and their friends was held on May 20 at Willia's Rooms, the company numbering about 130. Mr. John Williams, President of the Society, was in the chair, with Dr. Slaughter, the Master of the Apothecaries' Society, on his right, and Dr. Cottle, President of the Medical Society, on his left. Professor Tyndall, Professor Williamson, Mr. Erasmus Wilson, Sir P. Cunliffe Owen, Dr. B. W. Richardson, Professor Dewar, Mr. Callender, Mr. Wyndham Cottle, Dr. Langdon Down, Professor Bentley, Mr. W. Somerby, and Dr. Ramsay were among the guests.

The CHAIRMAN proposed all the toasts except the last, to which he responded, in speeches of commendable brevity. The guests who spoke were none of them tedious, and a brisk despatch also characterised the musical department. The result was that the programme was completely finished by 10 P.M., leaving a pleasant hour or two for general conversation.

Professor Erasmus Wilson responded for "The Army, Navy, and Reserve Forces." He claimed special connection with the Navy, having been born on board one of Her Majesty's vessels. He was also a subscribing member to a Richmond volunteer corps.

To the toast of "Science" Professor Williamson responded,

To the toast of "Science" Professor Williamson responded, in a neatly-turned speech, in which he showed to what a remarkable extent in recent years scientific men had associated and enlitvated social relationships, and finished by commenting on the service which pharmacy rendered, on the one hand to the public, in disseminating a knowledge of chemistry, and, on the other, by providing a cradle from which many eminent chemists were reared.

"The Honorary Members" was next given, and Professor

"The Honorary Members" was next given, and Professor TYNDALL was called on to reply. After remarking first that he had but little of the humour necessary for afterdinner speeches, the speaker went on to remark on the progress of scientific views in the medical profession, of which, he said, the pharmacists formed a part. He commended the conservative tendency which prevented great corporations, such as the medical profession, from being wafted about by every new wind of doctrine. These views, however, were irresistible, and it was interesting to watch how they made their way. The Professor then cologised, with considerable

waruth, the researches of Dr. Thorne Thorne at Caterham, aud those of Dr. William Boud at North Tawton, into the causes of epidemies.

The President of the Medical Society (Dr. Cottle) spoke for "The Medical Profession," and Sir Philip Cunliffe Owen replied for "The Visitors," in short complimentary speeches.

Dr. Slaughter, the Master of the Society of Apothe-

caries, then proposed "The Prosperity of the Pharmaceutical Society, and the Health of the President," and took the opportunity of saying that he, as representing the ancient Society of Apothecaries, proposed that toast with great pleasure, as the apothecaries look on the Pharmaceutical Society as having in great measure acted in accordance with their own views in suppressing, as much as possible, the assumption, by persons who had not received a fitting education, of the duties of the medical profession.

Mr. WILLIAMS, in responding, expressed his gratification at the cordial reception of the toast. The defective manner in which he had discharged some of his duties at least, he said, was evident to all, but the future was before the Society, and a new President would soon have to be elected, under whom he hoped the Society would enjoy greater pro-

sperity thau it had ever had before.

The Chemists and Druggists' Trade Association of Great Britain.

THIRD ANNUAL MEETING.

THE third annual meeting of this Association was held at the Iuns of Court Hotel. Lincoln's Inn Fields, W.C. the Iuns of Court Hotel, Lincoln's Inn Fields, W.C., on Tuesday, the 20th ult. Mr. S. Ulysses Jones, of Learnington, the President, occupied the chair. The proceedings commenced with a

GENERAL COMMITTEE MEETING,

Which was held in the Arbitration-room. The business transacted by the Committee was mainly of a formal charaeter. The report was taken as read, and, on the motion of Mr. Whitfield, seconded by Mr. Pollard, was unanimously adopted.

The Committee then balloted for the Executive Committee for the ensuing year, and the following names were read out as the suecessful candidates for England and Wales:—Frederick Andrews, London; C. J. Arblaster, Birmingham; Thomas Barelay, Birmingham; C. B. Bell, Hull; W. J. Churchill, Birmiugham; F. A. Cole, Colchester; W. G. Cross, jun., Shrewsbury; G. A. Cubley, Sheffield; George Delves, Exeter; Robert Hampson, London; T. W. Holdsworth, Birmingham; William Jervis, Sheffield; S. U. Jones, Leamington; Joseph Maltby, Lincoln; John Owen, London; Richard Reynolds, Leeds; John Shaw, Liverpool; William Southall, Birmingham; Charles Symes, Liverpool; John Wade, London; George Walker, Coventry. Scotland: Thomas Davidson, Glasgow; Charles Kerr, Dundee; James Mackenzie, Edinburgh.

On the motion of Mr. EDWARD WHALEY, Kingston-on-Thames, seconded by Mr. J. HORNCASTLE, London, it was resolved to recommend the above-named gentlemen to the annual general meeting for election for the ensuing year.

THE GENERAL MEETING

Was held in the Banquetting-room. The Secretary having read the notice convening the meeting,

The CHAIRMAN (Mr. S. U. Jones, of Leamington) said, as President of the Association, he supposed he was expected to make a few remarks, but he would occupy only a short time, as there was a good deal of business to do. He could not forbear expressing his sense of pleasure in meeting them on that occasion. They had had a great many burning questions, and one of the greatest had been that of Shepperley. He was pleased to say that ease had been brought to an and. It had been very ably argued by an able man,

chemists would no louger be harassed on the question of simple counter-prescribing. They had no very burning question before them at the present time. The desire and the object of their Association was not to trespass upon the rights or interfere with the privileges of any other body. It was merely to secure their own rights. Of course, he need not tell them that after two years of legal trouble a great deal of money had been spent. Unfortunately, the taxed costs had not yet been paid. They had already spent 1,200%, but hoped to receive upwards of 200% back. No alteration had been made in the Bill before Parliament, but the matter was still watched by a committee appointed for that purpose. They (the Associatiou) were desirous of doing everything they could to protect their interests from any unjust attack, or any aggression of what they believed to be the rights and privileges of chemists and druggists. He would just state before concluding that a cheque had been sent to Mr. Shepperley for his expenses in the case, but he had very kindly returned it.

THE REPORT

Detailed the history of the Shepperley case during the past year, and gave the following statement in regard to the Wiggins case:—

This case was tried before Mr. Justice Field and a common jury, in the Courts at Westminster, on May 23 and 24, 1878, the plaintiffs taking a different and more oppressive course in this case by laying the action in the Court of Exchequer instead of in the County Court. At the time Mr. Wiggins was sued by the Apothecaries Company for the sum of 40*L*, he had an interview with the members of the Law Committee, and was fully and carefully questioned as to the nature of his business. His replies being considered satisfactory, a resolution was passed instructing the Solicitor to put in an appearance to the writ, with a view to obtain particulars of the cases in which it was alleged the defendant had acted and practised as an apothecary, as no particulars were stated on the writ. On an appearance being entered to the writ, particulars were asked for and refused by the plaintiffs. An application was then made to a Judge in Chambers for an order to compel plaintiffs to furnish particulars, when Mr. Baron Cleasby ordered particulars to be given. The particulars then delivered consisted of certain persons' names, but no addresses or information as to the nature of the complaints. Counsel then applied to a judge for an order for additional particulars, which was refused, and, in the opinion of counsel, it was considered useless to appeal against this decision, so that until the witnesses for plaintiffs gave their evidence in court the Solicitor of the Association had no idea of the specific charges that were to be brought against the defendant. From these facts it will be seen that every possible means was taken by your Law Committee to ascertain the particulars of the cases on which the Apothecaries' Company had ordered the prosecution, but without avail; and as the new trial in Mr. Shepperley's case was at that time pending, the Association would have failed in protecting the interests of the trade had it permitted an action, the particulars of which were uuknown, and which might at the trial have proved to be cases of the most simple and trivial description of eounter-practice, to pass undefended.

Although the decision was against the Association, it was not unfavourable to the trade, as the finding of the jury was not simply that the defendant had acted and practised as an apothecary, but that he had acted and practised as an apothecary in taking cases that were dangerous. The position of matters at that time appeared to be, that whereas chemists might possibly prescribe for simple ailments in their own shops, they nevertheless ran the risk of an action being brought against them by the Apothecaries' Company if the complaints treated subsequently developed into those of a serious nature.

The action of the Committee in defending two cases under the Sale of Food and Drugs Act, and in regard to the Dentists Act, the Medical Bill, and the Sale of Food and Drugs Act was also described.

The concluding paragraphs were as follows:—
At the last Annual General Meeting a resolution was passed to the effect that a special effort be made to raise at least 2,000l. by donations, to be used in protecting and and he trusted that the matter now would rest, and that I furthering the legitimate interests of chemists and druggists. The response to this appeal has been prompt and liberal, proving the strong determination to uphold the Executive in vigorously defending the rights of the trade. It will be seen from the annexed balance-sheet that the sum of 1,645*l*. has been contributed during the current year, a considerable portion of which has been expended by the Exeentive in the defence of counter-practice.

On May 28 last the Secretary, acting on the instructions of your Committee, addressed a communication to the secretary and registrar of the Pharmaeeutical Society, asking the Conneil of the Society to assist the Association by a donation to aid it in prosecuting the appeal in the case of the Apotheearies' Company r. Shepperley, on the grounds that in the opinion of the Executive the issues involved in that case were of vital importance to chemists generally. This application did not meet with the favourable consideration of the Council.

The numerical strength of the Association still continues to increase, 406 chemists having become members of the Association since the last audit, during which period there have been 93 crasures from the register, making the total number of members at the present time 4.346. Your Committee is, however, extremely auxious to still further augment the strength of the Society, and takes this opportunity of impressing upon those gentlemen who have in the past so materially aided in its organisation, the need in which the Association stands for still greater extension, in order that its sphere of action may be enlarged and its general utility increased.

By order of the Executive Committee,

W. F. HAYDON,

Office of the Association, Birmingham, May 5, 1879. Secretary.

FINANCIAL STATEMENT FROM APRIL 18, 1878, TO APRIL 18, 1879.

		Recei	pts.						
Balance brought forwa	ard fro	m las	t ac-	Æ	8.	d.	£	S.	d.
count, viz.:— Balance at bankers				463 54	9	7			
Ditto in Treasurer's	nanus	• •	• •	6)-F			517	17	2
1,570 annual subscripti Donations			• •	$\frac{1.142}{1,645}$		6			
				2.788	9	6			
Less-Outstanding su									
donations	• •	• •	* *	345	9	-6	2,443	0	0
	~~						2,960	17	2
	Ea	pend	iture			,			
A Torontonomenta				3:	.Y.,	d.	£	s. 14	$\frac{d}{0}$
Advertisements Auditors' charges			• • •				18		0
Canvassing expenses		• •						7	
Hire of rooms for publ	ic me	etines						9	
Law costs, viz.:—	10 1110	CCIME.	• •						
Costs—Apothecaries	Cor	mnants							
Wiggins				116	11	8			
Counsel's fees				204		0			
Calinitar's abarges				248		11			
Ditto travelling expe	enses			45	3	6			
Witnesses' charges an	nd ext	enses		226	16	.5			
Office expenses, viz. :-							841	14	6
Cleaning, &c				3	12	-6			
Gas				9	1	10			
Rates and taxes				7	13	7			
Rent				26	0	()			
							46		11
Postages							178		2
Reporting							92	0	0
Salaries, viz. :—									
Secretary				300					
Clerks				124	9	8	101	_	
Ct	~				_	_	424		
Stationery and printin	g	• •					252 13		7
Sundries Travelling expenses, vi	2	• •	• •				19	11	4
Executive Committee	0			114	7	9			
Executive Committe Secretary		• •	• •		13	5			
Secretary	• •	••	• •				149	1	2
							2,064	14	- 8
Balance at bankers on	depos	it acc	ount	800	0	0	2,001	^ *	J
Ditto current account				65	0	10			
				31		-8			
Ditto in Treasurer's he	ands			0.1	- 1	10			
Ditto em Treasurer's ha	ands	• •	••			-	896	2	6

We have examined the foregoing account with the books and vouchers of the Association, and find it correct.

Birmingham, April 28, 1879. (Signed) LAUNDY & Co., Auditors.

Mr. HAFFENDEN said he had great pleasure in moving the adoption of the report. It was an honour to be connected with an association that had done such good work during the past year. Last year they were nnder a cloud; this year they began with a balance in hand. There was still work to do; and work that they could do without being antagonistic to the Pharmacentical Society. It was not their nature to be satisfied. They wanted to go on. They wanted to consolidate themselves, and no doubt there was work still remaining for the Pharmaceutical Society, and for the Trade Association. He warmly and heartily moved that the report as presented be adopted.

Mr. CHARLES SYMES (Liverpool), in seconding the adoption of the report, said it was a simple statement of facts. It seemed to him as if he could read in that report something that had been done for the benefit of the trade generally; and not only for the trade generally, he also felt it had been of some benefit to himself. If all ehemists throughout the country could read that report he was convinced they would join an Association doing such good work. There was nothing to apologise for. The Society had done its work, and had done it in a conscientions manner, and it needed no apology for anything it had done. It did not assume to itself any defined right to exercise its prerogative against its members. The report began by stating a ease which he at first somewhat regretted the Association had gone into. They had in a very concise form the facts which led to their undertaking the Wiggins case, and he felt sure that when they read them they would feel that there was not a shadow of blame for undertaking that case, although it did not turn out as satisfactorily as they could have wished. To meet the large expenses an appeal had been made. If the statement of that special fund, and the manner in which the whole country set to work to get together the money that was asked for to carry ont the case, had been placed at the end of the Shepperley case it would perhaps have shown a conclusion. The way that the whole country came forward on that occasion showed that the ehemists and druggists of the present day, like the chemists and druggists of the past, were still determined to maintain their rights. He would call attention to the action of their Association, which was mentioned in the report, with regard to the Adulteration Act, and the endeavour to devise some better means for recovering expenses when such prosecutions fell through. He considered it was discreditable that any such law as the law of adulteration should exist. They, in the present day, were being competed with by co-operative and other societies. They were being harassed by Medical Defence Asso-But in the face of all that, and suffering as they did from the depression of trade, he thought it was a most unfair and unjust thing for any Government to endeavour to rob them of their just rights, and he admired the course taken by their Association in defending their canse. But they were not desirous of keeping up any agitation where agitation was not necessary.

Mr. Ellwood had very great pleasure in supporting the adoption of the report. It was most satisfactory, and contrasted very favourably with the report which had been put

forward by the Pharmaeentical Society.

Mr. Hampson said the national Pharmacopæia laid down the basis of purity and of preparation, and he wanted to have the opinion of the meeting, if he could extract it, as to the advisability of chemists generally having some voice in the preparation of that Pharmacopæia. He wanted the idea to go abroad that chemists should have something to do with the preparation of that Pharmaeopœia. It rested almost solely—it did technically—with the Medical Conneil. He believed that the last Pharmacopæia was a great improvement upon all others; but, as chemists, it was their duty to look to their interests in that matter. In defending themselves before a court of law, they had to appeal to that Pharmacopæia. He contended that they ought to have an equal voice in that matter. If there were a dozen to prepare that Pharmacopeia, they onght to have half-a-dozen on that com-Yet they were simply, as it were, helpless at present. Hc wanted them to consider that matter. They would probably have to contest their position—they would probably have to agitate until they arrived at what they desired; but he looked forward to the time when they would have a representation on the Pharmaeopæia committee. This

was the third year of the Association's existence, and he found they had not reached 5,000 members. He would not complain; but, on the other hand, he thought it was the duty of every chemist in this country to become a member of their Association. How could they carry out their principles unless they were backed by the whole country? They wanted to feel that they had something in the bank—something that they could fall back upon when the occasion arose. He appealed to every member of the trade in Great Britain to join the Association as a matter of duty. Five shillings a year was a very small matter. The milkmen—he was going to say the cat's-meat men—(laughter)—had some kind of association to defend their interests. They lived in an age of overlegislation and active competition, and it was their duty to make their Association strong as well as useful.

Mr. SHEPPERLEY said the question with which his name had been prominently placed before the notice of the trade for some time past having been referred to, he felt constrained to say a few words, more especially to acknowledge his own personal sense of the unceasing efforts the Executive, the Solicitor, and their indefatigable Secretary had one and all thrown into a cause which had been surrounded, teehnically and in other ways, with difficulties of no common order. The success which had attended upon that cause had ensured the position of the Association more than any of their other comparatively numerous undertakings. But he could not allow that opportunity to pass without expressing his own personal sense of the sound judgment and good the generalship of those gentlemen who guided the steps of their well-planted, vigorous, flourishing, and, he trusted, still ever-increasing Association.

Mr. Urwick congratulated the Association upon the work it had done in the past year. They had a Society which was not driven to act for them, but which was really willing when they were in trouble to investigate and assist them. It had done good work in Shepperley's case. It was through their Society that the Pharmaceutical Society was urged to take steps against the co-operative stores. He trusted the course taken would be of great benefit to the trade at large. They had begun at the right end, and, if finally successful, he hoped they would go on. Many of the stores, he knew, were quaking in their shoes. The Trade Association, by the good work it had done, had a claim upon the support of the whole trade.

Mr. Andrews had not expected to hear anything on the Pharmacopæia at that meeting; but he had felt for many years that the chemists had a right to have a voice in its preparation. On the last a chemist was employed by the physicians. When the new Pharmacopæia did come, he trusted that the chemists and druggists of this country would be able to make their voices heard in the framing of it.

Mr. FITCH, referring to the mixing of drugs, contended that if knowledge was required all those things ought to be handed over to them for exclusive preparation. Both Societies—the Trade Association and the Pharmaceutical—had said that they had nothing to fear from future legislation, but there was a provision in the Bill before Parliament that whoever practised for gain was subject to such and such a penalty—

The Solicitor, interposing, pointed out that Mr. Fitch was wrong, and explained that to come under the penalties it was necessary that he should not only practise for gain, but that he should do other things as well: that he should assume

titles, &c.

Mr. THOMAS BARCLAY (Birmingham) thought it desirable that they should, at this stage of the proceedings and of their existence, take a short review of the past, and also see what they had to do in the future. Dr. Symes had called attention to the omission, in the report, of statistics in connection with the 2,000l. fund. He should like to answer him on that point, and he thought it would also be of interest to the meeting generally to know something about the finances of the Association. The 2,000*l*. fund, as they would recollect, was started at the last meeting, and during the year 1.645l. had been raised. He then gave the details, showing how the amount had been raised in donations from 11. 1s. and upwards. The Liverpool Registered Chemists' Association, which ought to have the honours of the day, had sent 30l.; and 1021. was received from the wholesale and retail trade of Liverpool; 710l. had been subscribed in large amounts; 935l. had been raised by the rank and file of the trade in small amounts. The members of the Association in the first year numbered 2,880, the next year 3,940, and the present year 4,346. There were between 7,000 and 8,000 chemists in the trade, and the Association, to be thoroughly successful, ought to embrace the whole of them, and they ought not to rest satisfied until the whole of the trade was brought into it. This year there was 345% in outstanding subscriptions, and he hoped that everything would be done to get in those subscriptions. Something had been said in regard to Shepperley's ease that day, It was said in some quarters that it was not a test case. But he thought the apothecaries considered it a test They laid their plans very carefully, and therefore from their standpoint it must be a test case. One of the advantages arising from Shepperley's case was that it elicited public opinion in favour of the chemists and drug-gists throughout the country, and of their acting in defence of simple counter-prescribing, and the gratitude which had been evoked generally showed that they had the sympathies of the entire public with them, with the exception of a few ultra-medical men. He was sure it was not the feeling of medical men generally that counter-practice should be put a stop to. In regard to the Pharmacopæia, he thought it was a very important question. They must not forget that till very recently the medical practitioners very largely consisted of apothecaries, and took a very active part in compounding medicines. But he thought the Medical Council would now recognise the rights of chemists to be associated with the Medical Council in the preparation of the Pharmacopæia. With such gentlemen as Dr. Symes and others on the Council they should be quite looked after in that quarter. He regretted that they were to lose the services of Mr. Greenish on their own Council. He had done yeoman's service. He was not leaving from want of sympathy with them, but his public work was growing upon him, and he could not devote to it the time necessary. He (Mr. Barclay) was not like Mr. Jones in the matter of prospective work. He thought there was great work for them in the future. There were many things which would press upon them, and he, as a member of the Executive, did not anticipate a very easy time. They must look forward to anything but a bed of roses if they intended to do their duty.

The adoption was then formally put and carried unani-

mously

The Executive Committee as chosen and recommended by the General Committee meeting was also unanimously accepted.

Mr. Urwick then proposed a vote of thanks to the Executive Committee for past services, and

Mr. Owen, in seconding it, expressed his approval of the

work they had done.

Mr. Thomas Greenish (London) said he had but a very few remarks to make. Mr. Barclay had made a slight mistake. He had not resigned. His year of office had simply expired, and he asked to be given a little rest. The time taken up with his duties at the Pharmaceutical Council was very great. He considered that the Chemists and Druggists' Trade Association had attended well and fairly to their interests, and they ought to look forward and make an effort to obtain the support of every member of the trade, so that they might be a united body. He had no doubt from the committee they had named that their interests would be well attended to. He congratulated them on their position, and on the list of the Executive, and he had no doubt he should have to congratulate them, if they were spared to meet another year, upon their success.

Mr. URWICK moved the appointment of the Executive recommended by the General Committee.

This was seconded by Mr. ABRAHAM GREAVES and agreed to.

The meeting then proceeded to elect the officers for the ensuing year, and

The Chairman said with reference to himself he had considered it a great honour to occupy the position of President

sidered it a great honour to occupy the position of President of the Association. But the time had now arrived when he must ask them to appoint a successor. (Cries of No, no.) Well there were circumstances which made it necessary, as he was leaving Leamington shortly. He had to ask them to release him from the office, although he resigned with great regret. They must have some one near Birmingham to attend to the duties.

Mr. T. W. HOLDSWORTH, Birmingham, Honorary Secretary, asked them to appoint some one clse in his place—not that he objected to the work, but he thought it was not right that this office should remain too long in the hands of any one person.

Mr. BARCLAY urged that when they had got a gentleman who filled the post satisfactorily he should be kept.

The ballot for officers for the ensuing year was then announced as follows:—

President—Thomas Barclay (Birmingham).
Vice-president—Robert Hampson (London).
Treasurer—William Southall (Birmingham).
Hon. Secretary—T. W. Holdsworth (Birmingham).

Mr. Thomas Barclay, on taking the chair as President for the ensuing year, said he felt the responsibility of the position very much. It was one that he had not sought. He felt the responsibility in regard to the trade generally and in regard to the Association. They held a very great power in their hands for good or evil. They might be of good service, or they might, by indiscreet action, do great harm. He was exceedingly anxious that the reins should be held by very firm hands. They had in their past President a gentleman who had been studiously careful of every word and every action. He had done his very utmost not only to steer the Association right, but also to advance the interests of his fellow-tradesmen, and he (the speaker) succeeded one whom he should endeavour to follow in that respect. He had been fearful that they would place him in that position. He would do his utmost to merit their confidence and to carry on successfully the work of their Association.

Mr. Hampson (Vice-president) thanked them most sincerely for the position in which he was placed. He hoped he should, at the end of his year of office have done some

good.

Mr. Holdsworth (Hon. Secretary) also returned thanks for his re-election. It was an honorary office, for the bulk of the work fell upon their excellent Secretary, Mr. Haydon. He (the speaker) felt when the Association was started that it was what was wanted. They wanted a defence against encroachment and attack. The necessity for their existence remained. He begged to be allowed to move a vote of thanks to the Secretary. It was only fair to him that at that meeting there should be a hearty recognition of the services he had rendered to the Society. There were very few paid servants who threw into their work so much interest as he had done.

Mr. Jervis seconded the vote as being merited by energy

and unceasing effort for the good of the trade.

The vote was unanimously accorded, and Mr. Haydon returned thanks.

A vote of thanks to the Solicitor for his zeal and energy in the interests of the Association was then moved by Mr. Jones, seconded by Mr. Churchill, supported by Mr. Greenish, and adopted.

Mr. GLAISHER (Solicitor), responding, said the work of the Association to him had been very interesting, and it was gratifying to find that his labours were appreciated by them

The CHAIRMAN then said the meeting was open to an expression of opinion on matters affecting the trade.

Mr. Ward said he would like to bring before the Executive the question of the vending of proprietary articles containing poisons included in the Pharmacy Act; he also meant homeopathic medicines containing poison within the meaning of the Act. He felt that it was an injustice to the trade that any grocer or draper should be privileged to sell homeopathic preparations containing poisons such as aconite, arsenicum, belladonna, &c. He hoped it would be looked at fairly. If the sale were to be permitted, it should be stated whether the articles contained the substances they were said to contain. He hoped the Council would fairly look into the matter, and try, by working hand-in-hand with the Pharmaceutical Society, if they could not decide whether it was legal or illegal.

Dr. SYMES thought there was some room for action in the interest of the trade with regard to patent medicines. They were aware that on the continent in the case of all patent proprietary medicines the formula had to be given on the

wrapper. He could not advise such a course as that in this eountry, yet he could not conceive that there would be any difficulty in representing to a Government legislating for the benefit of the people that it was for the interest of the public as much as for the chemist and druggist, that if patent medicines contained poison the fact should be stated on the label of each packet or parcel, and the nature and quantity of the poison so employed. If that were done he would then propose that the patent medicine stamp should not prevent the operation of the Pharmacy Act with regard to the sale of poisons; but it was first of all necessary to have a provision requiring the makers of patent medicines to state if they contained poisons. There was a case lately of a person asking for an ounce of laudanum in a grocer's shop, and being informed that the shopkeeper could not sell 1 ounce, but could sell 2 ounces; and it was supplied in a bottle covered by a patent medicine stamp for 8d. The stamp in that instance appeared to relieve her of all responsibility. But he doubted if it really did so. However, when the matter came before the magistrates the case was dismissed on the ground that the patent medicine stamp protected the seller. In cases of poisoning with any patent medicine a medical man had no idea when called in what poison had been used. He contended that patent medicines should only be sold by registered chemists and druggists, and it was necessary that they should get legislation, which would enable them to define what patent medicines contained.

Mr. Hampson believed that if the Pharmacy Act were looked fairly into it would be found to be strong enough to cover this question to a certain extent, and that they were under somewhat of a mistake in supposing that patent medicines were without the action of the Pharmacy Act. Of course this was a very wide subject. If they were to bring all patent medicines under the operation of the Pharmacy Act they would have to label every cough mixture "poison. For instance, most eough mixtures contained morphia or something of that kind. There were other things, such as strong liniments, which were already labelled "poison." They would have to face the matter in some form, but it was impossible for that meeting to arrive at any conclusion. They could merely complain that they were suffering from unfair competition in a manner they did not anticipate, and that the public were not protected, because aconite, chloral, and morphia, prussic acid, and almost every poison in the schedule could be had in the patent medicine form. It was a most difficult question. He had tried to fathom it, but must coufess himself beaten. It appeared to him that the best way in dealing with patent medicines was to begin de novo. If they attempted to carry out the Pharmacy Act on the matter they would be landed in a dilemma.

The SECRETARY said, with regard to the sale of homœopathic medicines, he some time ago made a special journey in the North of England, with the object of obtaining from a general dealer some homœopathic preparations of poison. He asked for arsenicum and aconite tincture No. 1. The dealer told him that he did not keep No. 1 or No. 2, and he was supplied with No. 3. When that was placed in the hands of a competent analyst he reported that the tinctures con-

tained no trace whatever of the active principle.

Mr. Pollard thought the first of Dr. Symes' propositions scemed to obviate the second. If patent medicines containing poison were to have the quantity of poison stated on them, he did not see how the public would be more protected by buying them of a chemist than of a grocer. If the nature of the poison and the dose were stated, the Legislature would probably think the public were sufficiently protected. The extra protection in the case of chemists selling laudanum was this: that a chemist felt a certain responsibility; but would chemists accept the responsibility of selling these patent medicines made by proprietors who might be navvies, for there was a very popular patent medicine in his neighbourhood which was made by a navvy? If they were to move in that direction the Legislature would come to see that after all there was no necessity to restrict poisons to chemists, and that if they made it a general rule that the dose should be stated on the label, laudauum might even be sold by village hucksters, and they would lose rather than gain.

Mr. Mackenzie (Edinburgh) hoped Mr. Symes would get on the Pharmaceutical Council and be able to carry out his views.

Mr. Barker Smith made some desultory remarks concerning co-operative stores, and was understood to move a resolution committing the Executive Council to a trial of the co-operative principle.

The motion fell through for want of a seconder.

Mr. HAFFENDEN said it occurred to him that medical men frequently either put the acting ingredient in some unfamiliar name, or in some way concealed it from the patient, and it would perhaps be disadvantageous to the vendors or proprietors of patent medicines if they were

stated to contain poison.

Mr. WHITFIELD (Scarborough) said there were two aspects to the question of patent medicines—the financial and the moral. As men of business they did their best to make a living and satisfy their consciences that they did their duty. But so long as the patent medicines brought in the orthodox 1s. $1\frac{1}{2}d$. the moral aspect was in abeyance; but now that those medicines were being sold at $10\frac{1}{2}d$, the moral consideration was revived. He thought many of them were ashamed of the patent medicine trade, and would be glad to give it up, and druggists had it in their power, by speaking to their customers, to largely discourage the sale.

Dr. SYMES said the dispensing of medicines would not be affected by his proposal, but whenever any real reform was to be brought about some vested interest would suffer. The patent medicine trade seemed to be drifting out of their hands, and they should, therefore, put forward some effort to

save it.

Mr. URWICK pointed out that there was a fearful depression of trade, and urged that if they only had a little patience they would see the legitimate trade return to its regular channels. If the public wanted things well done they must not go to the stores; although in a way they were economical, they would be failures. Many of the stores were not answering at the present time. Their groceries were done at a loss of from 10 to 12 per cent., but they made it up by putting a large profit on wines.

Mr. MACKENZIE, following up the remarks of the last speaker, said he was assured that the weak point of the stores was that they had too great a variety of incongruous

goods.

Mr. WHITTLE said they must take the thing as it was, and continue to sell patent medicines. If they gave them up the grocers would sell them. He advised chemists not to sell under price, and hoped to sec a more friendly feeling in their Society towards the Pharmaceutical

Society

The CHAIRMAN said he was glad to have had such a free expression of opinion by gentlemen present, and they might be quite sure the Executive Council would give due regard to the several points brought forward. Some very excellent points had been made, and it was only at these large meetings that they could get such information as to the general feeling of the trade. He was glad to hear what had been said with regard to patent medicines. Of course, they would all remember that one of the planks of their platform was an amended Pharmacy Act to prevent the sale of poison by unregistered men under cover of the patent medicine stamp, and they might feel sure that that would not be neglected. As regarded the action of the Pharmaccutical Society, he was sure they were all delighted in the result. The Society had their heartiest sympathy in putting down co-operative trading. They were proud of their success, and hoped they would go forward with the appeal, and that the result would be to establish firmly the right of chemists to vend medicines.

A vote of thanks to the Chairman, proposed by Mr. Urwick, seconded by Mr. Westrup, and carried unanimously, terminated the proceedings.

FUMIGATING PLANTS.—Mr. George Wall, of the Peradeniya Botanic Gardens, Ceylon, has devised an ingenious method of fumigating coffee trees for the cure of the leaf disease. A paper umbrella, with a curtain hanging from it, is dropped over the tree, and fastened by the handle; a lighted sulphur fuse is then placed underneath, and it is said that the fumes are retained long enough to attack the spores of the fungus. Possibly the plan might be found useful for destroying by fumigation the parasites of other plants.

The Pharmacentical Society of Ireland.

MEETING OF THE COUNCIL.

Wednesday, June 4, 1879.

PRESENT:—C. R. C. Tichborne, Ph.D., LL.D. (President), Dr. Aquilla Smith (Vice-president), Sir George Owens, M.D., Dr. Collins, Dr. Ryan, Dr. Whitaker (Belfast), Messrs. Bennett (Kingstown), Brunker, Harrington (Cork), Hayes, Holmes, Oldham, and Simpson.

The minutes of the meeting held on May 7 were read and

confirmed.

Read a letter from Mr. II. Patton, of Omagh, requesting to be informed whether, on the termination of his apprenticeship, he could go into business as a chemist and druggist, and sell poisons (but not compound prescriptions) without passing an examination.

The Registrar was directed to refer him to the Pharmacy (Ircland) Act, and to state that his proposed course would

be illegal.

The first and second Reports from the Committee on the Pharmacy (Ireland) Act, 1875 (of which copies had previously been sent to each member of Council), were now taken into consideration, clause by clause.

The following are the reports as amended by the

Council:-

FIRST REPORT OF THE COMMITTEE ON THE PHARMACY ACT (IRELAND), 1875.

The Committee appointed to consider the Pharmacy Act for Ireland, and to report whether any, and if so what, changes should be made therein, having carefully considered the matter, and also having had before them the opinion given by Mr. Purcell, Q.C., on the questions submitted to him, are of opinion that it would be judicious for the Council at an early date to have the Act amended, in order to give power to them as follows:-

1st. The Council of this Society having decided to have but the oue grade for the Compounding of Prescriptions, viz., that of Pharmaceutical Chemist-this Committee are of opinion that Clauses 15 and 18 should be repealed, and all other Clauses relating to the title of Chemists and Druggists be altered to agree therewith.

2nd. That all sellers (not otherwise qualified) of Poisons, or Poisonous Drugs, as contained in Schedules 1 and 2 of the "Sale of Poisons Act," be

duly registered as Druggists.

3rd. To allow all persons at present actually engaged in the sale of Poisous, or Poisonous Drugs, ou making a declaration to that effect, and giving reasonable proof thereof, to be registered on payment of a Fee not exceeding 31.3s., and that such persons shall be styled "Registered Drug-

4th. That the Council shall have power to institute an Examination for those wishing to sell Poisons or Poisonous Drugs, and a Fee, not to exceed 31. 3s., to be charged therefor, and that the names of the persons so examined shall be placed on the list of Registered Druggists.

5th. That a list of "Registered Druggists" for the Sale of Poisons shall be published from time to time by the Council of the Pharmaceutical

Society, of all persons entitled to be placed thereon.

6th. That it shall be illegal for any person to sell Poisons or Poisonous Drugs, or to style himself a "Druggist," except he shall be so registe ed save and except he be a Qualified Medical Practitioner, or duly registered by the Pharmaceutical Society of Ireland, or otherwise exempt by the Pharmacy Act.

7th. That it shall be unlawful for any Registered Druggist to ke p open shop for retailing, dispensing, or compounding Medical Prescriptions.

8th. That the penalties for infringement of this Act, and modes of recovering them, shall be the same as provided in the Pharmacy Act.

9th. That all Bye-laws or Rules for Registration and Examination shall be approved of by the Privy Council prior to their being put into force.

SECOND REPORT OF THE PHARMACY ACT COMMITTEE.

1. Be it enacted, that in reference to the Pharmacy (Ireland) Act (38 and 39 Vict., ch. 57), and more especially in reference to section 30 of said Act, the word person shall be held to mean and imply any association of persons, whether as a partnership, society, or company (limited or otherwise), of which one, or more, members shall not be qualified under the provisions of the said Act.
2. In clause 11, line 4, after "Society" read-

(Such day not to be later than the next monthly meeting after such vacancy has been signified to the said President.)

3. In clause 34, line 4, after "prison" insert, "or Poor Law Board."

Proposed by Mr. Brunker, seconded by Mr. Hayes, and resolved—

That the amendments to the Pharmacy Act adopted by the Council be drawn up in the form of an Act, to be submitted for consideration to the Society at the annual meeting to be held in October next, a copy being previously sent to each member.

Mr. Thomas Martin Keown, Dublin Street, Monaghan, who was duly proposed and seconded at the May meeting, was elected a member of the Society.

PHARMACEUTICAL SOCIETY'S DINNER.

THE above Society held what is intended to be its first annual dinner on Wednesday, June 4, at the Grosvenor Hotel, Dublin. There was a good attendance, including members from Cork, Belfast, Newry, Kingstown, Bray, &c. The chair was occupied by Dr. Tichborne, the President. The vicechair was filled by Mr. J. G. Boileau. After the usual loyal toasts the President, on proposing "Success to the Pharmaceutical Society of Ireland," went into a short survey of what had been done since its commencement, and paid a high tribute to the assistance given by Sir Dominic Corrigan in the formation of the Society; and he congratulated the members on its satisfactory position financially and otherwise, and spoke of the good feeling existing towards it by the medical profession. Mr. J. G. Boileau, in proposing the health of the President, congratulated the Society on having so able a man as Dr. Tiehborne as President. The next toast, "The Medical Profession," was ably responded to by Dr. Whitaker, of Belfast. Mr. Boileau proposed "The Pharmaceutical Society of Great Britain," and called upon Mr. Holmes to respond, who in reply said that he felt himself in a rather peculiar position—in a sense toasting himself. On behalf of the Pharmaceutical Society of Great Britain he thanked them for the cordial manner in which the toast had been received. It was well known that there was a little alarm in the ranks of the English Society on the formation of the Irish Society. Affairs, however, had smoothed down, but he thought the day far distant when there could be either union or reciprocity.

Mr. Simpson also responded. "Our Provincial Brethren" was responded to by Mr. Harrington, of Cork, who said there was one thing he wished to remark in reference to proposed legislation giving the Council power to grant a licence to certain persons to sell poisons, to be called "licensed druggists": he would suggest the term should be "licensed poisoners." "Our Junior Brethren" was responded to by Mr. Froedman. The President proposed the concluding toast, "To our next Merry Meeting," and the company separated at 11 o'clock, having spent a most pleasant evening.

Songs and recitations were interspersed with the toasts.

Metropolitan Reports.

FIRE.—On May 19 a fire broke out in the camphor refinery belonging to Mr. W. H. Atkinson, manufacturing chemist, Crown Street, Wyndham Road, Camberwell. It was caused by the vapour of the camphor coming in contact with a flame.

Professor Wanklyn before the Queen's Bench.—On May 14 the case of Slater r. Wanklyn was argued at the Queen's Bench, before Mr. Justice Manisty and a common jury. It was an action for wrongful dismissal. The defendant is the Professor of Chemistry at St. George's Hospital, and in 1877 he was the proprietor of a laboratory in Charlotte Street, Fitzroy Square. In 1872 the plaintiff went to the defendant's laboratory, and in 1877 he was acting as assistant with a salary at the rate of 100l. a year. On October 31, 1877, the defendant gave the plaintiff notice to leave his employment summarily. The case for the defendant was that the plaintiff had disobeyed his orders, and that he had

communicated some of his secrets to a Dr. Fox, and it was stated that one of them appeared in a book published by Dr. Fox. Both Dr. Fox and the plaintiff denied that any of the defendant's secrets had been communicated by the plaintiff to Dr. Fox, and they and another chemist said that the process described in Dr. Fox's book, which, it was alleged, was one of the secrets which had been communicated, had been known to chemists for many years. The jury returned a verdict for the plaintiff—damages 331. 6s. 8d.

Fraud on Messrs. Richardson & Co., Leicester.— On May 23 Dr. Sutton, alias Miller, was brought up under remand at Bow Street, charged with serious frauds. The defendant's swindling transactions had been most multitudinous and varied. The solicitor for the Treasury read letters in the defendant's handwriting, written upon the printed form used by him and signed "J. W. Miller, M.D.," ordering some hundreds of pills and packets of medicine, &c., from Messrs. Richardson & Co., wholesale chemists, of Leicester. The order was supplemented by requests for other goods, written on post-cards, and arriving on subsequent days, the defendant adding that he was anxious to have the goods direct from the manufacturers instead of through the London agents, as a guarantee of their being genuine. The goods were sent, but the money was never paid for them. It was a curious feature in the case that the firm received letters, about two years afterwards, in the same handwriting, cautioning them to beware of a man named Stafford (who had also obtained goods of them by fraud), and declaring that the latter was connected with a swindler using the name of "Miller." Some of these letters were signed "James Grayson, solicitor, 37 Hunter Street," who repeated that he had authority to prosecute the offenders, &c. Mr. Wontner called Mr. Driver, clerk to Messrs. Richardson, to prove the facts relative to the orders for goods and the receipt of the letters, &c., after which the defendant was again remanded.

ANOTHER FRAUD ON MESSRS. RICHARDSON. — At Clerkenwell Police Court on May 21, Samuel Sargent, 33, 16 Roden Street, Islington, traveller, was charged before Mr. Hosack, with forging the endorsement of a cheque for 91. 10s., and embezzling the proceeds. Mr. Owston, of Leicester, appeared on behalf of the prosecution. Evidence was given by Mr. G. F. Richardson, of the firm of Richardson & Lloyd, wholesale druggists and chemists, Leicester, from which it appeared that the prisoner was engaged by that firm until August last. His duties were to solicit orders in the suburbs of London, and to remit every Friday all payments that had been made on account of the firm. In consequence of irregularities which had occurred, instructions were given to the prisoner in February last to forward all cheques made payable to the firm direct to his employers, and to remit all moneys by Post-office orders. In July a cheque was paid to the prisoner by a Mr. Hagrave, a medicine vendor at Hammersmith, made payable to the order of Messrs. Richardson & Lloyd. The prisoner had forged their signature, and had obtained the proceeds of the cheque without any authority, and had not accounted for the amount in the weekly balancesheet. Warrants were obtained for his arrest on the two charges of forgery and embezzlement, and executed by Police-sergeant Golding, G 25. When taken into custody the prisoner said he did not deny having had the money, but he had not had it with any felonious intention. Formal evidence having been given as to the payment of the cheque to the prisoner, he was committed for trial.

A DOUBLE SUICIDE.—On May 22 Mr. W. Carter held an inquiry at the Angel tavern, High Street, South Lambeth, as to the death of Mrs. Emily Hannah Edwards, 30, of 58 Lambeth Walk, South Lambeth. Her husband, a chemist, carrying on business in Lambeth, left his home on the evening of May 17 and went to the Victoria Embankment, where he was found insensible shortly afterwards by the police. He was removed to Westminster Hospital, where he was found to be dead. He had received some distressing information relating to family affairs, and was believed to have poisoned himself. On the morning of May 20 the shop was not opened, and, between nine and ten o'clock, a Mr. Mills, accompanied by a Miss Lawrence and a boy named Clisby, obtained an entry by the back door leading into the washhouse. Mrs. Edwards was found upstairs, lying on her bed, quite dead, and a small tumbler containing strong poison

was on the mantelshelf. Her face was covered with a pocket-handkerchief. A post-mortem examination was made, and it was found that she had died from oxalic acid poisoning. It is alleged that the deceased had an excessive dread of appearing as a witness at the inquest on her husband. The jury returned a verdict "That the deceased committed suicide while in a state of mental derangement."

ALLEGED ROBBERY FROM A PATENT MEDICINE WARE-HOUSE.—James Miles, a warehouseman, and Frederick Anderson, a packer, in the employment of Messrs Barclay & Sons, of Farringdon Street, were charged at the Guildhall, on Monday last, with stealing two dozen bottles of Eno's Fruit Salt. More parcels of the same preparation were found at Miles's house. The prisoners were remanded.

Probincial Reports.

ATTERCLIFFE.

STEDMAN'S TEETHING POWDER.—An inquest was held at Attercliffe on May 27 and 28, on the body of an infant named Malloy, aged four months. The mother had given it half a Stedman's teething powder, and finding that it produced no effect, gave it a whole one on the following day. The directions for use state that the dosc for a child under six months of age is half a powder. The post-mortem examination revealed the fact that the child died from convulsions brought on by constipation, and that the teething powder had not affected it. Before this decision was reached, the Coroner had made the following remarks. He asked the mother why she could not be content with the old-fashioned medicines known to all mothers, such as senna and castor-oil, instead of resorting to things she knew nothing about, which must either be of no good at all, or tremendously strong medicines, for a whole powder would not fill a gun-cap. The powders had been given in a reckless manner, but he did not think the woman meant to do any harm to her child. She had not the slightest idea as to the composition of the powders, nor had he himself. They might be rank poison, or harmless quack medicines, or really good remedies, for anything he knew; but all that would be cleared up after the post-mortem examination had been made. Mr. George Shaw, the surgeon called to see the child, telegraphed to Mr. Stedman, asking if a whole powder could kill a child six months old. Mr. Stedman's reply was:—"No, it's utterly impossible; were they Steedman's powders?—Post hoc, sed non propter. Steedman's powders contain morphia, which is altogether wanting in Stedman's."

BILSTON.

UNSTAMPED WEIGHTS.—On May 27 Mr. Benjamin Haddock, ehemist, Great Bridge, Bilston, was fined 10s. and costs, for having unstamped weights in his possession.

BIRMINGHAM.

CAMOMILES IN TOBACCO.—On May 29 at the Birmingham Police Court, Edward Wilkinson, wholesale tobacco dealer, was summoned by the Excise for selling a pound of cut tobacco which was adulterated. The tobacco was analysed at Somerset House. It contained only one-fifth tobacco, the remainder being camomile flowers, logwood, and liquorice. He was find 50l. Three tobacconists were summoned for selling adulterated tobacco in the form of smoking mixture, which they purchased from Wilkinson. They were each fined 50l. A fortnight previously, at Gainsborough, Messrs. Anyan, grocers, tobacco dealers, &c., Church Street, were fined 50l. for having in their possession a quantity of tobacco which contained camomile flowers dyed with logwood and sweetened. The packets were labelled "New Smoking Mixture," and bore the address of Wilkinson & Co., Birmingham, the firm named above. The mixture in this case contained over 80 per cent. of tobacco.

Poisoning by Prussic Acid.—On May 27, J. P. Jones, a traveller and collector, 84 Newhall Street, Birmingham, bought half-an-ounce of prussic acid of Mr. Humphrey, Bull Street. He went to the Albion Hotel, obtained permissicn

to lie down in the coffee-room, and was found shortly after apparently in a fit, with the prussic acid bottle empty by his side. Mr. Garner, surgeon, was called in, but Jones died soon after.

BOSTON.

ATTEMPTED POISONING BY VERMIN-KILLER.—At the Boston Police Court on May 16, Joseph Robinson, labourer, was committed to prison in default of securities for good behaviour for attempting to poison himself with verminkiller, purchased from Mr. Booker, chemist. An emetic, promptly administered, frustrated his attempt. It is to be noted that he took the powder in whiskey.

BRISTOL.

ATTEMPTED POISONING.—On May 27 Leah Jane Bennett attempted to poison herself with oxalic acid, which she had purchased of Mr. Babb, chemist, 37 Milk Street. She was conveyed to the Infirmary too soon for fatal results to supervene.

CARDIFF.

ODD ATTEMPT TO POISON.—On May 29 a servant bought the smallest quantity of rat poison she could have, of Mr. G. Jones, chemist, 226 Bute Street. She went out, gave it to a little girl named M·Cree, saying, "There, my little dear: there's something for you." The child did not take it, but ran into the house, and in about ten minutes Mr. Jones was interviewed by Mrs. M·Cree, and, fortunately, was able to identify the packet as the one he had just sold. The police were at once informed of the matter.

DARLINGTON.

POISONED BY ROOTS.—Thomas Robert Noddings, five years old, of Darlington, was poisoned last month by eating some poisonous root in mistake for sour dockens, i.e., sheep's sorrel. He was attended by Dr. Eastwood, but died 18 hours after eating the poison.

GLASGOW.

CHEMISTS AND DRUGGISTS' ASSOCIATION. - The last business meeting of the Association was held in Anderson's College on June 5, at 9 P.M., Mr. Alex. Kinninmont, F.C.S., President, in the chair. The Secretary, Mr. Hicks, read the minutes of the previous meeting, and the Treasurer, Mr. J. A. Clarke, gave his financial statement, which showed a balance of cash on hand from the session 1878-79 now ended. The President then reviewed the past session, which, he said, had been none of the brightest; we were not, however, alone in this condition, for throughout the country general depression had been the rule, therefore it was extremely satisfactory to know that although the membership had fallen off considerably, yet by economy a surplus over expenditure had been maintained, and as the Library Fund had also increased by donations the Council would be able to add by next session those books chosen by the members. After the President's remarks the following gentlemen were elected office-bearers for session 1879-80: Mr. Alex. Kinninmont, F.C.S., President; Mr. Robert Brodie, Vice-president (vice Mr. J. M. Fairlie, resigned); Mr. John C. Hunter, Secretary (vice Mr. Hicks, resigned); Mr. Hicks, Treasurer (vice Mr. Joseph A. Clarke, resigned); Mr. Walker, Librarian; Members of Council, Messrs. Daniel Frazer, Thomas Davidson, John Currie, sen., R. C. Rait, J. C. Steel, Joseph A. Clark, William Weir, M. Simpson, John Foster, J. W. Pettigrew, Mr. Paul, John Fenwick; Auditors, Mr. Robert M'Adam, Mr. Archibald Paterson. Mr. John Currie. sen., moved a vote of thanks, which was heartily awarded, to the President, Secretary, and Treasurer for their services during the session.

HALES OWEN.

Breach of the Pharmacy Act.—At Hales Owen Police Court on June 3, Emily Eliza Adam, chemist, Hagley Street, Hales Owen (not on the register), was charged with selling to Eliza Rudge certain poison, viz., a preparation of opium, without labelling it as a poison. Mrs. Rudge purchased a pennyworth of mixture from defendant's shop on April :. She gave it to her son, and it caused his death. Defendant pleaded guilty, and was fined 50s. and costs.

HUDDERSFIELD.

SUICIDE.—On May 19, at Marsden, near Huddersfield, William John Pinnock committed suicide. His habits were irregular, his health broken, and his spirits low. He called his landlady into his room, told her that he had just taken prussic acid, and was about to take strychnine. He did this, and died in a few minutes. Verdiet, "Temporary insanity."

MANCHESTER.

Unusual Poisoning Case.—Luke Starkie, aged 56, sexton of Christ Church, was the subject of an inquest on May 24 and 27, at Bradford, near Manchester. On February 19, while suffering great agony from tic-doloureux, he went to a shelf in his house, took down a bottle of hydrochloric acid, and drank from it. He had been in the habit of taking tincture of iron, but always mixed in a cup. It is not known why he went to the bottle, and it is believed that he was ignorant of its contents. The hydrochloric acid immediately caused vomiting. He was placed under the care of Dr. Royle, who treated him almost up to the time of his death, the cause of which was starvation, brought on by the contraction of the gullet from the effects of the acid, which prevented him from taking food. Verdict, "Accidental death."

Poisoning with Potassium Biehromate.—An inquest was held at Manchester on May 21 on the body of James Edward Lewington, aged two-and-a-half. On May 17 the child had found some lumps of potassium bichromate among some rubbish which had been swept from the premises of a Mr. Cowell, French polisher. The child sucked one of the lumps, and was immediately seized with pains in the stomach, and ran home vomiting excessively. Remedies were administered, but the child died on May 19. Verdict, "Accidental death."

NOTTINGHAM.

**Nottingham and Notts Chemists Association.—The annual meeting of this Association was held on May 28 under the presidency of Mr. R. FitzHugh, F.C.S. The report of the Council was read by the Hon. Secretary, Mr. R. Jackson. It showed that the Society was in a prosperous state, the number of members being 59, with 26 associates, and the balance in the hands of the Treasurer being 51l. 4s. 11d. After some discussion on the report, the following officers were elected for the ensuing year:—President, Mr. R. Fitz-Hugh, F.C.S.; Vice-president, Mr. F. White; Treasurer, Mr. J. Rayner; Hon. Secretary, Mr. R. Jackson; Council, Messrs. Bolton, S. Fletcher, Humphreys, Parker, Smith, Warriner, W. Wildowson, and Wilford, and the meeting terminated with a vote of thanks to the officers and council for their past services.

OLDBURY.

Fire.—On May 23 a fire occurred at Messrs. Chance's Alkali Works, which caused a loss of about 600*l*., fully covered by insurance. About one o'clock flames were observed in a shed stored with wooden staves and headings. Abundance of water and assistance was at hand, so the fire was confined to the block, which, however, was entirely destroyed. There are 450 hands fully employed at the works. Business was not interrupted by the fire.

ROTHERHAM.

THE AFFAIRS OF BEATSON & MYCOCK.—On May 27 Mr. Mycock obtained from the Court of Common Pleas an order that 1,002, paid into Court on a previous occasion should be refunded to him. On May 22 the Judge of the Sheffield Bankruptcy Court dismissed two debtors' summonses, taken out against Beatson & Mycock to recover 14,0001., the amount of a bill of sale signed "William Beatson." Under circumstances already narrated, Beatson had allowed judgment to go by default, but an order had been given suspending judgment till the result of Mycock's appeal to the Common Pleas Division was known. This had been given in Mycock's favour, but a further appeal to the House of Lords was pending, so the order as to costs was stayed until after the decision was given.

SHEFFIELD.

BLOOD-POISONING (!)—The Sheffield Daily Telegraph reports that an inquest was held at fikeston on April 24, on a boy named Mark Beardsley. "Dr. Wood deposed that he attended deceased, but was only called in on the day preceding his death. He saw the boy twice when alive. In his opinion the boy died from blood-poisoning, caused by inhaling lead poison whilst in the newly-painted rooms of the house. The verdict was returned in accordance with this evidence." We do not wish to discredit Dr. Wood's statement on such a meagre report as this, but we would point out that no attempt is made to substantiate his opinion, and that recent experiments have proved that lead is not present in the air of newly-painted places. Indeed, it is difficult to imagine how the very solid carbonate can possibly volatilise; while the oil it is mixed with entirely prevents its being rubbed off as dust.

LIGHT WEIGHTS.—On May 26, W. R. Hartley, druggist, Neepsend Lane, was fined 10s. and costs for having in his possession three 1 lb. weights light and unstamped.

Unlicensed Practitioners—Collapse of a Prosecution.—On May 17 the summonses against Nathaniel Firth, Westgate; William Cole, Manchester Road, and James Balmforth, Longcroft Place, for styling themselves doctors without having certificates or being registered, were brought under the notice of the magistrates at Sheffield. The Chief Constable said these cases had been standing over two years; one of the witnesses was dead, others had removed, a portion of the medicine seized had evaporated, and therefore he thought they had better withdraw the summonses. The magistrates' clerk said that one defendant was heavily fined, he had appealed, and the summonses against the others were held over pending the appeal. The latter had, however, come to an untimely end by the defendant being sent to penal servitude, and therefore there was an end of the whole affair. The summonses were then withdrawn.

being sent to penal servitude, and therefore there was an end of the whole affair. The summonses were then withdrawn.

Mr. Henry Chifton Sorby, of Sheffield, the local secretary for the coming meeting of the British Association, has had the honorary degree of D.C.L. conferred upon him by the University of Cambridge. Perhaps the most widely known of his researches are those on the colouring matters of plants. The Sheffield and Rotherham Independent, in announcing this event, states that one of his compeers in the title is Professor Hnxley, "the famous anthor of The Origin of Species"! Dr. Huxley's fame requires no support from other men's work.

ST. HELENS.

CHEMISTS' ASSOCIATION.—This association was formed by the chemists of the town for carrying out the object of the Pharmacy Act in the borongh and neighbourhood, and also for mutual improvement. Alderman J. Harrison was unanimously elected as its first president; Mr. Thomas Sherlock, treasurer; Mr. George Webster, secretary. Council—Messrs. Cotton, McKenzie, Fox, Baker, Dixon, Webster, Harrison, and Sherlock. Rules for the conducting of the business of the Association were proposed and carried. The ordinary meetings will be held on the last Thursday of every month, for business, experiments, lectures, &c. The annual meeting will take place on October 2.

SOUTHPORT.

SUICIDE OF A COMMERCIAL TRAVELLER.—Mr. W. G. Nicholson, a traveller in the employment of Messrs. Bourne & Taylor, of London, who resided at Manchester, but had been staying at Sonthport for a few days, committed suicide on Sunday, June I. On the Saturday night he went to bed about 10 o'clock. About 5 o'clock on Sunday morning moaning was heard in the decessed's bedroom, and the landlady was informed of the fact. The bedroom door was broken open, and deceased was found lying on his back apparently in great pain. When asked if anything could be done for him, he cried out that he would give all he had for a drop of water, but on bringing it near to his mouth his shrieks were heartrendiug; he could not touch it. A doctor was soon in attendance, but could do nothing for him; he expired in dreadful agony about half-an-hour afterwards. A paper labelled "Vermin-poison" was found in the wash-

hand basin, and in deceased's pockets were found two other packets, which he had received as samples from a customer. While staying at the hotel he was in good health, but in a desponding condition. The inquest was held on Tuesday, when a verdict was given that deceased had committed snicide, but that there was no evidence to show the state of his mind at the time. Mr. Nicholson was a member of the late firm of Tomlinson, Nieholson & Morris, of Manchester. At the dissolution he seems to have been liable for the debts of the firm. When he entered the service of the firm he represented that he was in great pecuniary difficulties. His creditors had of late become very pressing in their demands. He was of a quiet disposition, and kept his troubles to himself; had it been otherwise many friends would have gladly helped him.

SPALDING.

Breach of the Pharmacy Act.—At the Spalding Petty Sessions on May 20, James Best, of Holbeach, chemist, was fined 3*L* and costs for unlawfully omitting to make an entry of a sale of a certain poison, to wit. Battle's verminkiller, before delivering the same to purchaser, on the 17th nlt.

STOCKTON.

SPIRIT OF NITRE AND CREAM OF TARTAR.—EXTRAORDI-NARY DEFENCE.—The Analyst reports the following cases :-"John Pennock, grocer, of Norton, was charged at the County Petty Sessions at Stockton, with selling adulterated spirits of nitre and cream of tartar. Mr. C. H. Archer, of Stockton, defended. Supt. Bell, inspector under the Act, stated that on February 4 he purchased 6 oz. of spirits of sweet mitre at the defendant's shop. He told the defendant it was for the purposes of analysis. He divided it into three portions, one of which he gave to the defendant, the second he retained, and the third he sent to Mr. Edger, of Newcastle, the county analyst, who certified it to contain 25 per cent. more water than genuine nitre contained. There was a fair proportion of nitrous ether. On the same day he purchased 4 oz. of cream of tartar, and the same process as mentioned in the first case was gone through. Mr. Edger certified the article to contain an excess of tartrate of lime -tartrate of lime, 8.5 per cent.; sand, 1.2 per cent.; sulphate of baryta, 17 per cent. He produced the analyst's certificate in each case. Mr. Archer said that in the first case his defence was that although the nitre was of inferior quality it was a commercial article, and of the quality usually sold. The first quality of nitre was seldom produced, the second was usually sold in town, and the third was generally sold in the country for cattle. Mr. Bell paid for an inferior article, and he was entitled to no better quality than he got. Mere inferiority was no ground on which to convict a man nnder the Act, and he therefore asked the Bench to dismiss his client. As to the cream of tartar, the tartrate of lime was left in through the mode of production; and the article, like the nitre, was sold precisely as it was got in the first instance. Mr. Dodgson, of the firm of Mandale, Dodgson & Co., bore out Mr. Archer's remarks as to the nitre, and added that people objected so much to paying for a superior quality that it was seldom offered; cream of tartar, he explained, was produced from the crust of wine. The crust of red wine was cleared by means of white clay, and there usually remained a certain amount of tartrate of lime, and not infrequently a small quantity of the clay. He supplied the defendant with the nitre and the cream of tartar. Supt. Bell: And of course you are consequently anxious that there should be no conviction. The Bench said they were satisfied that there had been an infringement of the Act, but it was not a serious They fined the defendant 1s. and costs in each case .-J. Clay, general dealer, of Norton, was also charged with selling adulterated nitre. Supt. Bell stated that in this case the analyst had certified the sample to contain 24 per cent. more water than was contained in genuine nitre. Cream of tartar purchased at the defendant's was found to be much better than that sold by Mr. Pennock; it was nearly pure, and a summons had, therefore, not been taken out. defendant said he sold the nitre exactly as he got it from the wholesale grocers. The Bench: We fine you 1s. and costs. You must not sell any more of this unless you tell people what it is.' If this report is correct, the plea urged by the defence is the most astounding we have yet met with. We need hardly remind our readers that cream of tartar is

made by dissolving argol, or "wine erust," in hot water, precipitating the colouring matter with about 5 per cent. of pipeelay, filtering the solution while still hot, and crystallising. When clay is present in the finished product it must have been added, intentionally or accidentally; and the elay certainly would never account for 17 per cent. of sulphate of baryta.

STRATFORD-ON-AVON.

PUBLIC ANALYST.—Eighteen months ago Dr. Bostoek Hill was appointed borough analyst for Stratford, but not a single sample has been submitted to him for analysis. In answer to a sharp inquiry from the Local Government Board, the Rural Sanitary Authorities of the Stratford Union stated that they had no reason to suspect that any adulterated articles of food or drink were sold in the district. The Central Board were not satisfied with the excuse, and on May 27 the local authorities commissioned the inspector to procure samples in the usual way.

TUXFORD (NOTTS).

ON May 14, about 11 A.M., the church steeple at Tnxforl was struck by lightning, and the shock smashed several of the bottles in the shop of Mr. Edwin Reynolds, druggist.

WINTERTON (LINCS.).

At the Winterton Petty Sessions on May 3, Charles Cross, druggist, was fined 10s. and 11s. 6d. eosts for being drunk on April 24 on licensed premised at the Cross Kcysinn

DISEASES OF CHILDREN.

(Continued.)

WORMS may prove a sonrce of great annoyance and even W danger when they give rise to reflex convulsions, which is not infrequently the case. The small white threadworm (Ascaris, or Oxyuris vermicularis) is most commonly met with; after a stool large numbers will often be seen writhing about, or they may be seen on a careful examination of the lower part of the bowel. They give rise to very great irritation, and cause the child to be constantly scratching the anus, aud after becoming warm in bed the itching is often aggravated, so that it may interfere with sleep. As these creatures inhabit the lower part of the bowel the readiest way of cure is to use some injection. An aperient powder may first be given, so as to clear the bowels, in order that the enema may act more directly. The following forms are all useful. Common salt dissolved in water or infusion of quassia (3j. to Oj.); tincture of perchloride of iron in either of the last-mentioned diluents, and in the same proportions: decoction of oak bark is also most useful. These injections should be retained for about ten minutes or a quarter of an hour, so as to act thoroughly, and afterwards the utmost cleanliness observed, the parts being well washed with cold water and soap after every motion. Scratching the anus should be guarded against, as it is believed that in so doing some of the ova may get under the finger nails, and thus ar meals or during eating may find their way back into the month, and so lead to fresh development.

The round worm (Ascaris lumbricoides) is also met with in children. It makes its abode in the small intestines, and may be discharged in the ordinary way per rectum, or may prove very troublesome by finding its way into other cavities, and give rise to various symptoms according to the purt invaded. Thus such a worm may find its way into the stomach and be discharged by the mouth or through the nostrils, or even find its way into the windpipe, causing great distress and symptoms of grave danger. Failing to reach the stomach, the bile and panereatic ducts may offer an outlet, and so this ascaris may be found in the gall bladder. In such cases jaundice may be produced by stoppage of the duct and retention of bile. In appearance an As vris lumbricoides very much resembles an ordinary earth-worm. It varies in length from 6 inches to 16 iuches. Unlike the thread worms, which usually exist in large numbers (hundreds or thousands), this form may exist singly, but usually there are several, and sometimes hundreds.

There is another form, Triescephalus dispar, which is

generally found in the large intestine, but is much shorter than a lumbricoid, being only 1 inch to 2 inches in length, and has its anterior extremity hair-like, whence its ordinary name, hair-headed or whip worm. It is said not to give rise to any symptoms.

These worms give rise to general symptoms, such as more or less wasting, debility, fretfulness, and pallor; to local symptoms, such as intense itching about anus, with scratching, which sooner or later gives rise to exceriations, which

make the original irritation much worse.

Amongst the reflex phenomena caused by the local mischief are scratching the nose, convulsions, squinting, grinding of teeth during sleep, twitching of limbs, and even chorea.

When worms are suspected, a most careful examination of all stools must be made, and continued for some time, and an aperient powder may be given now and then to assist in dislodging the offenders.

The best remedy for the round worms is santonin. To begin with, give some aperient to thoroughly empty the bowels, and feed on liquids for some hours previously. This may be done over-night, and after a free purging give a dose varying from one to three or four grains, according to age.

Tapeworm is generally found in adults, and so need not be considered here. The three forms we have already considered belong to the sub-kingdom Annuloida, the distinguishing feature of which is the possession of a set of canals, which constitute the so-called "water-vascular system," and differ from the vessels of all other animals. They are included in the order Nematoidea (νημα, thread; ειδος, form), so called from the peculiar shape. Dr. Roberts, in his "Handbook of Medicine," thus speaks of their development: —"It seems tolerably certain that no intestinal worm develops there directly from an ovum deposited by a previous tenant, but that this must be first discharged and undergo metamorphosis, being afterwards conveyed, by some means, through the mouth into the alimentary canal; in a certain stage of development, and when it reaches its peculiar habitat, it grows into the adult animal. As regards the development of the nematodes, an embryo forms in each ovum after its discharge in the stools, or, in the case of the thread-worms, even while in the intestines; no further change occurs while the evum is outside, though it may retain its vitality for a long period. In this condition it is supposed to enter the alimentary canal in various ways, such as by water, vegetables, fruit, or impure starchy substances.

In the nematodes the sexes are quite distinet, and the order includes, besides the worms already mentioned, the Guinea-worm and Trichina spiralis. By way of prevention, all stools suspected of containing ova should be destroyed, whilst all fruit, vegetables, &c., should be thoroughly washed, and all articles requiring cooking should be well boiled. Water should always be filtered, and if strengly suspected,

boiled previously.

Young children are very subject to enlarged glands, which are often due to scrofula. When so, other signs of this condition will usually be present, such as short, thick-set, and heavy body, face plain, tumid-looking neek, expanded and thick alæ nasi, low forehead, large upper lip, and dull pasty complexion (Jenner). Such children are generally deficient in mental power, and show a great tendency to eruptions of an ulcerative character, and very difficult to heal. The glands usually enlarged are those in the cervical region, in front of a line drawn from the opening of the ear canal to the shoulder. The best treatment is a properly-regulated diet, of nutritious and easily-digestible food, such being an important item; iron, quinine, the various phosphates, or syrus of the iodides. The chemical food is a very good form. Externally the use of iodide of lead or potassium ointment, or the painting of iodine. Plenty of fresh air and daily ablutions all over the body, with warm clothing.

daily ablutions all over the body, with warm clothing.

There are also a set of glands at the back of the neck, behind the line before mentioned; these scarcely ever enlarge from the cause last mentioned, but invariably from the presence of living organisms in the hair, and this is an important practical point. Whenever a child is seen with large and painful glands at the back of the neck careful examination will at once reveal either the living creatures or a plentiful supply of nits. Plenty of soap and water with white precipitate ointment, and an occasional sponging over with diluted acetic acid in order to dissolve the nits, will

effect a very satisfactory cure.

Whilst on this point the occurrence of ringworm may be noticed, as it is so disfiguring, and people are always so anxious to get rid of it at once. It is very prevalent in large schools where sufficient care is not bestowed on personal cleanlines, and here, as in other circumstances, "one black

sheep infects the flock."

The distinguishing feature of this disease is the graduallyspreading red circle, rapidly increasing in its whole circumference, whilst the centre remains pale or slightly discoloured, with numerous small scales. It may occur on the body, or on the hairy scalp. When in the latter situation, the hairs will be found much altered, being brittle, twisted, and broken off, the scalp being discoloured and scaly, the scales being fine and small. In such cases the hair should be freely cut away all round, so as to thoroughly expose the patch or patches; and, unless this be done, no remedy can be depended on. If the case is seen early, the next step should be to paint the part over with glacial acetic acid, care being taken not to apply it too freely, as in some cases it is apt to produce a peculiar honey-combed state of scalp, with subsequent ulceration. This will generally be sufficient to cure the disease, whether situated on the surface of the body or on the scalp; all that will be needful afterwards is to apply a little simple ointment. If in a more chronic state, as evidenced by absence of advancing red rings and the part covered with scales, the application of olive oil, well rubbed in, followed by one or two poultices to clear off all the scales, and the following ointment-Ung. hydrarg. ammon. chlor., ung. hydrarg. nit., and ung. zinci, in equal parts, will generally be followed by a cure. Dr. Tilbury Fox lays great stress on removing all diseased hairs in bad cases. When attacking the scalp, this disease goes by the name of *Tinea tonsurans*; when on the general surface, *Tinea circinata*; but both diseases are essentially the same, and are both due to the same parasite (Tricophyton tonsurans).

A very common ailment among unhealthy and not sufficiently cleanly children is eczema of the scalp and face, with enlargement of glands both in front and behind the neck.

There is much redness of the skin, at first merely red papules, then the surface weeps, and yellowish scabs are formed, which in the case of the scalp mat the hairs together; on the face in a later stage the skin will be reddened and cracked. In children who are strumous, pus is sometimes formed. There is usually much irritation, the child being restless and fretful. If strumous, cod-liver oil and steel wine will be of much use—an alterative powder given occasionally will also be found useful. In the early stage soothing and simple remedies are necessary, such as the application of sweet oil, zinc ointment; if much itching a lead lotion with glycerine. When on the scalp with hairs all matted, poultice in order to remove scabs, and combine this with free use of oil; when scabs are removed cut off the hair, and apply either zinc ointment or a calamine and oxide of zinc lotion with glycerine.

It is very important to bear in mind that the disease is generally due to bad management and want of cleanliness superadded to a strumous tendency, so that general treatment is necessary. It is also necessary to prevent the formation of scabs by free oiling, and absolute cleanliness in removing any that do form. Mothers, generally, go on applying layer after layer of ointment, which is again incrusted by scabs, so that the diseased skin itself is never acted on at all, and the disease goes on unchecked.

Small watery heads, looking like small blisters, often appear about the lips after exposure to a chill, and give rise to the local affection called *Herpes labialis*—its great importance, however, is derived from its frequent association

with pneumonia. It needs no special treatment.

Scabies or itch, from the frequency with which it occurs, is most necessary to be recognised at once, and treated promptly. It is due to a parasite, the Accurs scablei, the male being small and merely existing on the surface; but the female, after having been impregnated, burrows under the skin, giving rise to the little furrows so characteristic of the disease, with a slight elevation of a whitish colour at one end, where the accurs will be found. These canals or cuniculi are the diagnostic marks of the affection, and in adults are found most frequently between the fingers, and on the front of the wrists, the parasite preferring the thin skin. In young children who are being nursed the buttocks will often be

affected, the disease being transferred there from the hands of the nurse. The scratching gives rise to secondary results, such as excoriations, and these must not be mistaken for the primary disease. The itching is very great, and is apt to be

worse at night.

The treatment should be first to break down and open all the vesicles under which the female acari are situated, and where they deposit their cggs-silver-sand will accomplish this. The patient just moistens his finger, dips it in the sand, and then rubs each vesicle so as to rupture it; then sulphur ointment should be freely applied, and this repeated for three days night and morning; then a good warm bath with plenty of soap, a complete change of clothes, the old ones being destroyed or exposed to a disinfecting-chamber; the bath should be continued for some days. It is important not to mistake for the disease what is really secondary irritation produced by remedics.

(To be concluded in the next.)

PYROGENOUS PRODUCTS.

(A Paper read before the Chemists' Assistants' Association, 32a George St., Hanover Square, Jan. 10, 1879.)

BY R. H. PARKER.

PYROGENOUS substances, as the name indicates, are bodies produced by the action of fire, but as generally applied they are limited to such as possess more or less empyreumatic character. Directly or indirectly they are the products of destructive distillation which had better at once be defined. When a solid or liquid is subjected to heat in a retort it may be volatilised and condensed unchanged, as alcohol or camphor; if of heterogeneous composition, the volatile are separated from the fixed components, and if the former is a mixture of bodies of different boiling points, they may be separated by fractional distillation. If, however, the reciprocal attractive force of the atoms comprising the molecules of the body distilled is not powerful enough to maintain the molecular integrity of the substance at its boiling or subliming point, it succumbs to the antagonistic force of heat, and is split up or resolved into simpler and more stable combina-This constitutes destructive distillation. The atmosphere in which the distillation takes place is frequently an important factor—thus glycerine in vacuo distils unchanged, but contact with the atmosphere at an elevated temperature very soon gives rise to the well-known vapour of aerolein. Admixture with some inert substance frequently modifies or completely alters the reaction, as in the production of phenyl hydride, C₆H_a, and phenyl alcohol, C₆H₄HO, from benzoic and salicylic acids, the results being much better if the bodies are intimately mixed with calcium hydrate or fine sand. Formic acid also is much more readily prepared from exalic acid if the latter be dissolved in glycerinc.

Destructive Distillation of Wood.—Dry wood withstands a temperature of 150° C. without decomposition, which commences at 280° C. Above the latter temperature it is split up into gaseous, watery, and tarry or oily substances. The most oxygenated compounds appear first, gradually becoming richer in carbon till the latter element remains alone in the retort (excepting, of course, the mineral constituents). Light woods do not pay to distil, since they produce so large a proportion of gaseous products. Those chiefly used are pine and beech—the former giving a yield of 14 per cent. of tar from the stems, and 16 to 20 per cent. from the roots. Becch, and other dicotyledonous woods, give 10 per cent., while turf only produces 3 to 9 per cent. The most commonly occurring wood tar is Stockholm or Archangel tar, which is produced from pinc wood in the following manner :-

The situation most favourable to the process is a forest near a marsh or bog, because the roots of the fir (from which tar is principally extracted, the trunk being used as timber) are always most productive in such places. A conical cavity is then made in the ground (generally on the side of a bank or sloping hill), and the roots of the fir, together with logs and billets of the same being neatly trussed in a stack of

the same conical shape, are let into the cavity. The whole is then covered with turf to prevent the volatile products from being dissipated, which, by means of a heavy wooden mallet and wooden stamper worked separately by two men. is beaten down and rendered as firm as possible above the wood. The stack of billets is then kindled, and a slow combustion of the fir takes place, as in working charcoal. During this combustion, the tar, &c., exudes, and a cast-iron pan being on the bottom of the funnel with a spout which projects through the side of the bank, barrels are placed beneath this spout to collect the fluid as it comes away. As fast as the barrels are filled they are bunged and made ready for immediate exportation.

The relation between the various products formed during this process is best seen by their arrangement in the tabular form.

Products of Destructive Distillation of Wood.

Incondens- able Gaseous Products	Watery	Tarry and (Residue		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Light	Heavy	Residue	
$\begin{array}{c} \text{CO} \\ \text{CO}_2 \\ \text{CH}_4 \\ \text{CH}_2 \\ \text{H} \end{array}$	$\begin{array}{c} HC_{2}H_{3}O_{2} \\ CH_{3}HO \\ CH_{3}C_{2}H_{3}O_{2} \\ C_{3}H_{6}O \end{array}$	$\begin{array}{c} \textbf{Eupione} \\ \textbf{C}_5\textbf{H}_{12} \\ \textbf{Benzol} \\ \textbf{C}_6\textbf{H}_6 \end{array}$	$egin{array}{c} Creasote \ C_s H_{1o} O_2 \ Paraffin \ C_{20} H_{42} \ \end{array}$	English Asphalt or Pitch	Charcoal

The liquid distillate separates into an aqueous and an oily or tarry portion. The former, somewhat purified, constitutes Pyroligneous Acid. It is known as the Essence of Smoke of commerce, and is the source of aectic acid and aectates, methyl alcohol, minor constituents being aeetic ether, aectone, &c.

Tur owes its bitter taste to piccamar, and its medicinal

qualities to creasotc.

Acetic Acid. One pound wood gives 6 or 7 ounces of acid (varying in strength from equivalent of 25 to 55 grains of K₂CO₃ per ounce), and from 2 to 4 ounces of charcoal.

The tarry portion of the distillate constitutes Wood Tar, the Pix liquida B.P., a bituminous liquid, sp. gr. 1-06, thick and granular. The chief constituents of wood tar are:— Pyrocatechin (the granular portion), eupione, paraffin, capnon, piccamar, pittical, benzol, and creasote.

Treated with water, a small proportion dissolves, including the pyrocatechin. The solution is light brown, which deepens by age, and constitutes Eau de Goudron, or tar water. is soluble in ether, oils, and alcohol. Solution in the latter

menstruum forms Liquor Curbonis detergens.

Distillution of Wood Tar.—The residue after the distillation of tar is pitch, and consists of pyretin, with a little pine resin. The distillation is divided by the aqueous distillate into Light Oil of Tar and Heavy Oil of Tar. The light oil when rectified is colourless, and constitutes Oleum Picis Rect. of commerce. It consists chiefly of eupione, with a little benzol, acetone, and methyl acetate. heavy oil is a blackish brown, rather thin liquid, of disagreeable tarry odour, known in commerce as Spirit of Tar, used largely for footrot in sheep, ferrets, &c., and iu veterinary surgery. It consists of creasote, paraffin, chrysenc, pvreue, &c.

Eupione, C₅H₁₂, sp. gr. ·625 (paraffin ether made by Rew & Co., Regent Street, has a sp. gr. 624) is about the lightest liquid known (chief constituent of Ol. Picis Rect.), not affected by stronger acids or alkalics, is very limpid and

volatile, B.P. 100°-116° F.

Creasote (from heavy oil of Beechrood Tar), a liquid of sp. gr. 1.065 and B.P. 397° F., is prepared as follows:—The heavy oil is saturated with Na₂Co₃; a yellowish oil rises to the surface, is decanted, and subjected to fractional distillation. The heavier portion is heated with solution of potash, sp. gr. 1·12, in which creasote dissolves, and the hydrocarbons float. The alkaline liquid is boiled, filtered, and on addition of H₂SO₄ creasote is liberated. It is again treated This is repeated with KHO, boiled and set free by H₂SO₄. until it dissolves without residue in KHO.

Finally it is distilled at 397° F. and dried over CaCl.

When pure it is a colourless liquid, even after exposure to the atmosphere and light.

Creasote is not a definite chemical compound, and its chemistry is not so well made out as might be desired. According to Ziemann and Mondlesohn ("Year Book," p. 78) its chief constituents are *creosol*, or para-hydroxylmeta-methoxyl-toluene, and *phlorol*, which is an oxyxylene. Guaiacol is mentioned by several authors, but this appears to be a compound of creosol, $C_sH_{10}O_2$ and its next lower homologue, $C_rH_8O_2$. To the latter compound only the name Guaiacol should be confined. Like ethylie, methylic alcohol, &c., metallic potassium displaces hydrogen from creasote; the salt formed is a crystalline compound, C₈H₉O₂2H₂O, which is decomposed by H₂SO₄, giving creosol C₈H₁₀O₂, having most of the characters of creasote and an aromatic odour recalling vanilla.

Creasote should be insoluble in an equal volume of glycerine, and in water to a greater extent than about $1\frac{1}{4}$ per

A compound of creasote with potassium (made by adding an alcoholic solution of KHO to a mixture of creasote with half its volume of ether) has been recommended for use in medicine. This body is a white crystalline compound which polarizes light. It is soluble in alcohol, insoluble in ether, is decomposed by water with liberation of crossol. The specimen of creosol exhibited, although treated in this way only once, has a decidedly purer and more aromatic odour than commercial creasote. This creosolate of potassium, if such it may be called, certainly deserves careful investigation respecting its value as a therapeutical agent.

The Paraffin produced at the termination of the distillatory process is of the series CnH2n+2, usually of the formula

 $C_{20}H_{42}$, and is of course solid. In the foregoing remarks on the distillation of wood, that of pine has been chiefly alluded to; it is interesting to note that this wood does not give creasote as a large constituent of the distillate, but for the production of this substance Beech-wood is chiefly employed. The tar from this wood is official in the Pharmacopæia of Holland.

The wood of Juniperus Oxycedrus when distilled gives the well-known tarry liquid Haile de Cade, or Oleum Juniperi Pyroligneosum. The interior reddish wood is used.

Its composition is analogous to that of wood-tar, but it lacks the granular constituent pyrocatechin: its odour is distinct and characteristic.

The inner bark of Betula Alba when subjected to a sort of "distillatio per decensum," in an earthen pot with a hole at the base, gives a tarry liquid known as Oleum Betula Alba, having numerous synonyms:—Oleum Russia, Oleum Russi, Piw betulina, &c. The odonr of Russian leather is said to be due to the use of this tar during the dressing process, whence arises the first-mentioned synonyms: the resemblance of odour can only be detected when the mcrest trace of the tar is present.

Products of the Destructive Distillation of Coal.

cous	Liquid Products								
ble Gag iucts	Aqueous	Tarry, yields on Distillation							
Incondensable Gascous Products		Light Oils	Heavy	or "Dea	d Oils"	Residue	Residue		
Inco			Aeid	Basie	Neutral	residue			
Co CO ₂ CH ₄ CH ₂ H ₄ S NH ₃ ⁻¹	Water with Ammonia and Sul- phates in Solu- tion	Naphtha Benzol, C _e H _e , yields Nitro- benzol, source of Aniline	Carbolic, C _c H _e HO, Cresylic, C,H,HO,	C ₆ H ₇ N, Aniline,	Naphtha- lene, Paranaph- thalene, and numerous Solid and Liquid Hydro- carbons	Pitch	Coke		

Reference to the accompanying table indicates a very close general relation to the products distilled from wood. The Residue in this case is coke, well known as gas-carbon. Gaseous Products contain, in addition, NH3 and H2S, produced from the sulphur and nitrogenous constituents of the coal, these being absent from wood. The liquid distillate comprises two layers: first, the aqueous or ammoniacal liquor, consisting of ammonia carbonate, sulphuretted hydrogen, &c.; the lower layer of the distillate is Coal-tar, or Gas-tar. When coal is distilled at a low temperature the tar produced is lighter than water, and does not dry on exposure to the atmosphere; if, however, a higher degree of heat is used (as in coal-gas manufacture), the tar is heavier than water, and dries readily on exposure to the air.

This liquid is largely used as a preservative paint for wood exposed to constant moisture, for railing, ship-bottoms, &c. The composition of coal-tar is almost beyond enumera-tion, and is very variable. The chief are: Ammonia and numerous amines, benzene and its homologues, carbolic acid, naphthalene, anthracene, pitch.

One hundred parts of tar contain:-

	Bogbead Coal	Cannel Coal	Newcastle Coal	Staffordshire Coal
Benzol	$ \begin{array}{c} 12 \\ 3 \\ 30 \\ 41 \\ \hline 14 \end{array} $	$ \begin{array}{c} 9 \\ 14 \\ 40 \\ \hline 15 \\ 22 \end{array} $	2 5 12 	5 9 35
Total	100	100	100	100

Coal-tar (sp. gr. of coal-tar is 1:15-1:2) is about the most remarkable by-product known. A short time since it was considered nearly useless, and difficulty was experienced in getting rid of it; but now it forms the basis of an enormous manufacturing industry (one ton of coal gives from 10 to 12 gals. of tar). To manipulate this mixture fractional distillation is resorted to. The first portion of the distillate is lighter than water, is known as Light Oils, and contains naphtha (coal-tar naphtha) and benzol. Next comes the Heavy, or Dead Oil, the components of, and products from which would fill a museum: the most prominent, or rather important, of which would be carbolic and cresylic acids, aniline and its analogues, naphthalene, anthracene, and paraffin. residue in the retort is Pitch, which differs from the corresponding body obtained from wood in being odourless.

Light Oils.—This liquid, when redistilled, has sp. gr. about

.910, and constitutes Rough Naphtha. Agitated with H2SO4, clear liquid removed and treated with KHO, gives Coal-tar Naphtha; if again treated with H₂SO₂ and KHO, Highly Rectified Coal-tar Naphtha. It is a valuable solvent of eaoutchouc. &c., a good medium for varnishes and paints, is used as an illuminating agent, and as a preservative of metallic K and Na.

Pure Benzol may be obtained by distilling benzoic acid (1) with calcium hydrate (three parts). The distillate is treated with solution of KHO, the benzol decanted, dried

by means of CaCl₂, and redistilled.

Benzol, C₆H₆, sp. gr. '850, B.P. 187° F., solidifies at 32° F., melts at 44°, is obtained from the foregoing liquid by fractional distillation, and if required pure by crystallisation at its freezing-point. Its uses are too well known to require mention. Treated with strong pitric acid, the interesting substance Nitrobenzol is formed (C₆H₅NO₂), sp. gr. 1·209, B.P. 415° F., known as essence of mirbane, or artificial oil of bitter almonds, the odour of which it only partly imitates.

The Heavy or Dead Oil subjected to distillation gives an enormous number of products, which for purposes of study are

best divided into Acid, Basic, and Neutral products.

In the first list comes that important body Carbolic Acid, or phenyl alcohol, C_6H_3HO , a crystalline body sp. gr. 1·065, melting-point 94°, B.P. 360° F.; when pure is not deliquescent, although stated in the B.P. to "readily absorb moisture on exposure to the air, and thus become liquefied. (A specimen which has been exposed to moist air for five or six days is still in dry crystals.) It is prepared by collecting the part of the distillate from the heavy oils which comes over between 300° and 400° F.; this is treated with CaH₂O₂ and KHO; the crystalline deposit formed; is collected and dissolved in boiling water, and the clear aqueous solution decomposed by HCl; the acid liberated is washed and rectified over CaCl2. Carbolic acid may be prepared by distilling a mixture of equal parts of salicylic acid and powdered glass

or sand at a red heat, and salicylic acid may be prepared by the action of CO_2 on carbolic acid saturated with NaHO. The red colour of carbolic acid is said 5 to be due to rosolic acid, $\mathrm{C}_{12}\mathrm{H}_{12}\mathrm{O}_3$ and at a more advanced age the brown colour is brunolic acid.

Cresylic Acid, or more correctly alcohol, is the next higher homologue to carbolic acid, viz., C₇H₇HO, and its boiling-point is 397° F. It is a frequent component of impure

phenyl alcohol.

The Basic bodies are obtained from the heavy oil by treating with HCl. The most important are Picoline, Aniline, and

Chinoline.

Picoline, C₆II,N, is a colourless extremely volatile liquid, B.P. 278° F., sp. gr. 0.955, mixes with water in all proportions, is *fluid at* 0° F. Its salts crystallize with difficulty, and arc

deliquescent.

Aniline, C₆HyN, Amidobenzene, or Phenylamine, C₆H₅NH₂, sp. gr. 1-020, B.P. 360° F., may be prepared by distilling indigo with concentrated solution of KHO, or by reducing nitrobenzol by HyS. It is very volatile. It differs from picoline in that its salts crystallize easily and are not deliquescent. They are apt to become rose-coloured if exposed, while damp, to the atmosphere. From aniline, compounds of most brilliant hues can be obtained, and by the combination of these almost any tint can be produced. Most of these are obtained by various stages of oxidation or reduction: to attempt to give even an outline of their preparation would be useless, since there are practical details upon which success depend, which cannot be laid down upon paper. The chief of these compounds are: Aniline Purple, Roscin, Violine, Fuchsine or Majenta, Blew de Paris, Aniline Green or Emeraldine, and Aniline Blue.

Chinoline, the third basic constituent of the coal-tar distillate, C_9H_7N , has sp. gr. 1.081, and B.P. 455. It bears some resemblance to aniline, and from it have been obtained Violet Blue and Green dyes; these, although as yet only found in the chemist's laboratory, promise to vie with aniline colour in

point of economy and utility.

Neutral Compounds.—These are obtained after removal of the acid and basic constituents by KHO and HCl.

Napthalene, C₁₀ll₈, sp. gr. 1.95, is an extremely volatile solid, melting at 176° and B.P. 420°; its odour is said to bear a re-

semblance to that of the narcissus.

Paranaphthalen, or Anthracene, C₁₁H₁₀, is a white crystalline body, melting at 416°; separated from naphthaline by prolonged treatment with alcohol, which dissolves the latter, but leaves paranapthalin. Anthracene is very inflammable. From anthracene is obtained alizarin, C₁₄H₃O₄, identical with one of the red pigments contained in madder. The process is to oxidise the anthracene to anthraquinone, C₁₄H₅O₂, convert this into dibromanthraquinone C₁₄H₅Br₂O₂, and to heat this compound with KHO or NaHO, yielding alizarin and bromide of the alkali used. This body, treated with excess of Cl, gives a crystalline paste, which, if washed with ether and treated with boiling benzol, gives a solution that, on spontaneous evaporation, deposits beautifully-formed rhombohedric crystals, often of large size, and resembling Iceland spar in the curious property of double refraction. The composition of this interesting substance is not yet made ont.

Puraffin.—The solid paraffin of commerce is obtained in the distillation of Boghead cannel coal, and composes about 40 per cent. of the tar produced. Its characters are:—A white crystalline solid, $C_{20}H_{42}$, sp. gr. 798, melting at 114° F., insol. in H_2O and cold olive oil, soluble in hot eil, turpentine,

ether, benzol, &c.

Closely allied with the tar just considered in origin, composition, and character, is the substance known in commerce as Barbadoes Tar or Petroleum Barbadoese. This is a "black liquid bitumen, exuding spontaneously from the earth," probably produced by the action of the earth's internal heat upon various organic substances, including coal at a considerable depth below the surface. In the same manner also are formed the various Rock Oils, the finer kinds of which are known as "naphtha" or "mineral naphtha," while the darker and less pure varieties are called "petroleum."

Oil of Amber is a product of the destructive distillation of amber. This resin powdered, mixed with an equal weight of sand and distilled, yields three products, viz.:—Succinic acid, a fetid liquor, and a volatile oil; the latter, when dis-

tilled with six volumes of water, gives Ol. Succini Rect. of commerce.

The old Liquor Volatilis Cornu Cervi might be well referred to here, taking its name from the cornu cervi or hartshorn, from which it was first produced by destructive distillation. A large quantity of ammonium carbonate is produced, part of which condenses as a solid in the neck of the retort, and was known as "salts of hartshorn"; the remainder, dissolved in the distilled aqueous liquid, when freed from oil and tarry matter, was known as "spirit of hartshorn." The liquid appearing under this title in modern days, however, is simply an aqueous solution, containing about 25 per cent. of ammonium carbonate.

In the manufacture of bone black (by the destructive distillation of all kinds of bones) a very fetid oily body is obtained as a by-product, and appears in commerce as Oleum Animalis or Oleum Dippelii (Dippel's oil). It is used largely in agricultural districts as a component in fly powders and sheep dips in order to prevent flies attacking these animals. If Oleum Animalis be slowly distilled, the first portion which comes over forms Oleum Animalis Ethereum. This, I

believe, is rarely used.

In the destructive distillation of such substances as horn, wool, bones, feathers, &e., the products usually are NH₃, methylamine, amylamine, pyrrol, &c., and various fetid combinations of sulphur, if that element is present.

Destructive Distillation of Acids.—Many organic acids distilled alone simply lose CO₂, and frequently give a pyroacid thus:—

Gallie acid = Pyrogallie acid + CO₂;

sometimes this occurs in two stages, thus:-

Meconic acid = Comenic acid + CO₂;

then

Comenic acid = Pyrocomenic acid + CO2.

Occasionally water also is eliminated, thus:-

Mucic acid = Pyromucic acid + CO₂ + HO;

in some cases no pyroacid is formed, as

Oxalic acid = Formic acid +H2O + CO2 + CO.

The addition of fine sand or other inert substances often materially assists or alters the reaction. By this means formic acid is much more readily prepared from oxalic. If distilled in combination with a base the case is different—a ketone being formed, e.g.,

Acetate of lime = Acetone + CaCO3;

if the acid has a high atomic weight, other bodies are also formed.

The Destructive Distillation of Bases is much simpler in presence of alkalies than above, NH₃ and pyrrol are nearly always formed. The decompositions are usually too complex to admit of equational representation. The most common products are the alcohol bases.

It is worthy of note that sometimes curious similarity of products from exceedingly dissimilar bodies occur, thus:—
(1) Gelatinous Tissue, (2) Shale Naphtha, (3) Coal Naphtha, and (4) Cinchonine. Less similar bodies could searcely be chosen; each when distilled yields Pyrrol, Pyridine, Pieoline, Lutidin, and Collidine; in addition 1 and 4 give Aniline, 2 Parvoline, 3 and 4 Chinoline and Lepidine, and 3 Cryptidine.

Such substances as Pyrogenous Oil of Aloes, Oleum Lateritium, or oil of bricks, &c., being almost entirely out of date, are scarcely deserving of notice; they were produced by mixing the substances with olive oil or similar substance, and distilling.

A COMPREHENSIVE PRESCRIPTION.—James Hinton's passion was a single-eyed passion for wisdom and goodness of the highest kind. But he had a wife and family to feed. So money must be earned, and earn it he did, for he was the first aurist of his time. To be sure, all this money-seeking went so much against the grain that he now and then found it impossible to distract his mind from its habitual contemplation of the mysteries of the universe to the business of the moment, and one day, instead of writing on his patient's prescription that the ointment was every evening to be well rubbed in all round the ear, he wrote that it was "every evening to be well rubbed in, all round the world."—From "Fashions of the Day in Medicine and Science," by H. Strickland Constable.

PHARMACY IN SPAIN.

THE following notes by oue who has travelled through a I considerable portion of Spain, and who has resided in various parts of that country for many years, as to the condition of pharmaey there may not be without interest to many of our readers. Probably less is known regarding pharmacy in that country than in any other continental State, but whether this be owing to a lack of interest in the country itself to attract tourists and others to its centres, or whether it is overshadowed by some of its greater neighbours, we need not stop to inquire. It eertainly cannot be that pharmacy is of no interest in that country, or that it has no history to narrate, for, if we recollect aright, the first Pharmacopecia known in Europe was written by a pharmacist of Bareelona, while at the present time, though the profession may not be quite so advauced as in some other countries, there is in every direction a commendable progressive teudency. Moreover, our interest must be increased if we bear in mind that we are indebted to Spain for many of our medicines from both the vegetable and mineral kingdoms. For example, wine, olive oil, cork, almonds, oranges, lemons, raisins, lead, quicksilver, iron pyrites, silver ore and manganese ore, eopper and copper ore, &c., figure largely in their exports; but these, as every candidate for the Minor in our own country knows, do not nearly exhaust the indebtedness of our Pharmacopæia to its materia mediea.

As early as the beginning of the seventeenth century laws were issued regarding the examination of pharmacists, these at the same time conferring on them the exclusive right of making up and dispensing medicines, and also making it prohibitory under heavy penalties for physicians and chirurgeons to dispense. Half a century later pharmacy was still further elevated, and declared to be a profession and scientifie art, and pharmacists were not permitted to engage in any business or calling which would distract their attention from the legitimate exercise of their profession. The compromise between the high professional claims of the seventeenth century and the money-making, matter-offact reality of the nineteenth is curiously illustrated in almost every town and city. The "botica" (medicine only) is still entirely separated from the "drogueria" (drugs and sundries), but they are generally separated by a door only, so that anyone can have their prescription dispensed at one establishment and walk out and enter the next door (same establishment) and get his-well, it may be, bottle of Eno's Fruit Salt. The pharmacists, as a rule, are a well-educated, superior class of men, and they have amongst them many of high repute as investigators and writers, finding expression in their various pharmaceutical journals as well as in their pharmaceutieal conference ("Congresso Farmacutico Español"). The "Farmacopea Española" is, of course, their great directory, but probably it is not more universally used than the French Codex, which is also to be found on the desk of every pharmacist. The last (5th) edition of the "Farmacopea" was published in 1865, and probably a few excerpts from it may show the state of pharmacy in Spain better than any lengthened explanatiou. The following are the Spauish medical weights:-

Medicina	al pound =		 	 12 onzas
,,	onza =	• •	 	 8 dracmas
29	dracma =		 	 3 escrápulos
	escrímulo			94 granes

The medicinal pound = $\frac{3}{4}$ Castilian pound = 345 grammes. The grano = the weight of a grain of barley of ordinary size.

Acidum Cyanhydricum.

10½ per cent. HCN. Sedative. Dose, 2 to 4 grains.

There is surely a mistake here either with the dose or the strength of the solution. Probably, however, the excitable and hot-blooded Spaniard may stand a more powerful sedative than the phlegmatic Briton

Acidum Sulphuricum Alcoholisatum.

Sulpuric	acid, 66°	 	 	 	1 oz.
Alcohol,	900	 	 	 	3 oz.

Mix. Astringent and diuretic. Dose, 6 to 12 grains.

Aqua ex Bañares.

Sulphate of magn	nesia	 	 	3 drachm
Tartar emetic		 	 	1 grain
Sulphate of iron		 	 	6 grains
Rochelle salts		 	 	12 grains
Water				4.1hs

Dissolve the salts in the water and filter. Extemporaneous resolutive in infortos of the abdominal viscera, and laxative.

Aqua Fagedænica.

Corrosive sublimate	 	 	1 scruple
Carbonate of potass	 	 	1 drachm
Distilled water	 	 	I lb.

Triturate the salts in a glass mortar, and add the water little by little. It ought not to be filtered. Extemporaneous excitant and detersive: used specially in syphilitic ulcers.

Aqua ex Seidlitz.

Sulphate of magnesia	 	 	6 drachms
Bicarbonate of soda	 	 	2½ drachms
Water	 	 	2 lbs.
Sulphnric acid, 66°	 	 	1 drachm

Dissolve the sulphate of magnesia in the water; put the solution in a bottle, not filling it up further than the neck; add the sulphuric acid, and lastly the carbonate of soda, made previously into a small ball with mucilage. Cork the bottle, and secure immediately with a string. Resolutive and laxative. Dose, 4 to 8 oz.

Aana ex Seltz.

Chloride of calcium	 	 	6 grains
,, magnesia	 	 	5 grains
., soda	 	 ٠.	20 grains
Carbonate of soda	 	 	16 grains
Phosphate of soda	 	 	$1\frac{1}{3}$ grain
Sulphate of soda	 	 	1 grain
Distilled water	 	 	20 oz.
Carbonic acid	 	 	5 volumes

Dissolve the salts of soda in one part of the water, and the chlorides of calcium and magnesia in the other; mix the two liquids, and dissolve in it the carbonic acid by means of the proper apparatus, &c.

The next formula is a somewhat famous one, at least in so far as it is immensely popular, and although it may not be unknown to some we quote it in full.

Emplastrum Ranarum Simplex.

	-					
Live frogs						 12
Fresh root	of Sam	bucus	s ebul	us	• •	 ½ lb.
Lappa majo	r					 ½ lb.
Vinegar						 1 lb.
Water		• •				 3 lbs.
Simple lead	plaste	r				 6 lbs.
Yellow wax	:					 1 lb.
Pine turper	ıtiue					 1 OZ.
Emphaghing	n in n	audor				3 drachms

Macerate the frogs and the roots for two days with the vinegar and water, boil afterwards for an hour, rnn the liquid through a cloth, and evaporate on a water-bath to the consistence of a soft extract. Liquefy apart the simple plaster, mix with it the previous extract, and continue heating so long as water is given off. Then incorporate the turpentine and wax; take the plaster from the fire, and when it is half cold add the enphorbium and reduce to medallions. Use: excitant and resolutive.

It is, however, probably in olea that the Spanish Pharmacopœia excels, these generally, though not always, corresponding to the linimenta of our own Pharmacopœia. There are oils prepared from the roots, leaves, flowers, &c., of plants, some of these being simple, such as those prepared by digesting the leaves of belladonna, hyosciamus, stramonium, &c., or the flowers of the white lily, camomile, hypericum, &c., or the roots of the althea, thapsia, &c., in olive oil. Others again are compound, such as the famous balsamum tranquillans (oleum stramouii eompositum), which contains some 20 or more different herbs, all macerated in the oil, or the equally well-known friars' oil, oleum thapsiæ eompositum. Of a different nature are the—

Oleum Fructuum Lauri (Butyrum Lauri) and Oleum Nucis Moschatæ (Butyrum, N.M.)

Both prepared after a similar method. The nutmegs, for example, are reduced to paste by beating in an iron mortar, previously heated; next add the fifth part of its weight of boiling water; envelope in a cloth, and express in a press

between hot iron plates; separate the product when cold and solidified from the water in which it swims; liquefy in a water bath, filter through paper in a double-walled funnel having hot water between; receive the product in bottles, which it is well to have filled and properly stop-For immediate use the oil is to be reduced to pastiles by placing the bottle in hot water till its contents are liquefied, and turning out into moulds of paper, tinplate, or poreelain. This oil is a type of several, being used both internally, and externally for rubbing.

The following is after our own nitrate of mercury ointment, and may contain a hint to some who have a difficulty

with it.

Oleum Oxygenatum ex Bañares.

Pure mercury		 	 l oz.
Nitric acid, 35° B.	• •	 	 2 oz.
Olive oil		 	 16 oz.

Dissolve the metal in the acid, and add the solution to the oil placed in a porcelain vessel. Expose to a gentle heat, stirring without ceasing, and when it assumes a dark yellow colour remove from the fire, and continue the stirring till by cooling it has acquired the consistency of butter.

There are two oils simple solutions, namely, Oleum Phosphoratum—I drachm phosphorns to 5 oz. olive oil; and Oleum Iodatum—iodine, 1 scruple, to almond oil, 8 oz.

With the next, however, we must conclude our present

Oleum Scorpionum.

Live scorpions 8 oz. Olive oil 3 lbs.

Drown the scorpions in the oil, add a little water, heat gently to evaporate the water, pass through a cloth, and filter through paper used for rubbing the hypogastric to promote the excretion of urine.

TEMPERANCE BEVERAGES.

ON May 29 the British Medical Temperance Association sat down to a dinner at the Langham Hotel on the occasion of the third anniversary of the Association. From a druggist's point of view the drinks provided were the most interesting feature of the ceremony. They were very numerous, and have excited considerable attention. Dr. Norman Ker reports on them as follows:-

In the first place he certifies that they are unintoxicating. Johnson's Zoedone.—A sparkling, delicious, exhibitanting drink, containing phosphates and irons. An excellent brain

and nerve tonic. (Evans & Co., Wrexham.)

Belben's Cyderine.—As pleasant and refreshing as cyder, though unintoxicating. The aërated juice of apples.

(R. B. Belben, Bournemouth.)

Unfermented Wines .- I. Frank Wright's, made from the finest grapes. No artificial colouring; these grapes have a red juice. Has been in great demand for many years. (Frank Wright, Kensington.)

II. Bell & Co.'s Unfermented Port and Sherry .- The port

is remarkably good. (Bell & Co., Liverpool.)
III. Meyerheim's.—The pure inspissated juice of the grape. No artificial colouring, and no substance added foreign to the grapes. Pleasantly acid. (Moritz Meyerheim, Didsbury, Manchester.)

Harriot's Sparkling Bine and Orange Bine.—(Thomas Harriot, Wood Street, Westminster.)

National Temperance Beverage Company's Malt Drinks. Free from alcohol, and with difficulty can be distinguished from beer and stout. Their aërated drinks are very fine, especially their champagne. (National Temperance Beverage Company, Mansfield Road, London, N.W.)

Larmuth's Aërated Drinks and Hopade.—Very good and

pleasant.

Wright's Fruit Essences .- Exquisite. (Frank Wright, Kensington.)

Bell's Liqueurs.—Unintoxicating and very attractive.

(Bell & Co., Liverpool.)

Ginger Ale.—Nothing can be finer. (Cantrell & Cochrane,

"A Medical Connoisseur" writes to the Temperance Record as follows:—" Everyone was struck with the variety and attractiveness of the liquids at the dinner at the Langham. By universal consent the palm was awarded to

zoedone, a sparkling, delicious, exhilarating drink, containing phosphates and iron, and an excellent brain and nerve tonic. The patentee is Mr. David Johnson, F.C.S., and the manufacturers are Evans & Co., Wrexham. Ice is a great improvement to zocdone, as it is to cyderine, the aërated juice of apples, a drink which is as pleasant and refreshing as cycler, without the latter's intoxicating properties. The manufacturer is R. H. Belben, of Bournemouth. National Temperance Beverage Company, Mansfield Road, London, N.W., had a remarkable variety of hop drinks, well fitted to be used as substitutes for beer and stout. This company's aërated drinks were all excellent. Mr. Harriot, of Wood Street, Westminster, provided his very agreeable sparkling and orange wines. He has devoted great attention to the subject, and his success is worthy of record. Larmuth's hopades were well patronised and thoroughly appreciated. Bell & Co., Breck Road, Liverpool, shone by the richness and elegance of their French Imperial liqueurs, and their unfermented wines were pronounced very good. The unfermented winc made by Frank Wright, Kensington, is too well known and widely appreciated to need a single word of praise. Nothing can be purer or more inviting to the eye, the reduces of the liquid being due, not to artificial colouring matter, but to the employment of grapes with a red juice. Yet another and new kind of unfermented wine was exhibited by Moritz Meyerheim, of Didsbury, Manehester. This is totally different, both in appearance and flavour, from either of the other unfermented wines. It is sweet and luscious, but has, withal, a pleasantly acid taste. It is the pure, inspissated juice of the grape, and is absolutely free from alcohol. A friend of ours, a non-abstainer, was quite delighted with it, as it reminded him of a winc he was, many years ago, very partial to in Malta. This is a new wine entirely, but will, we think, prove a very valuable and popular beverage." These articles are well worth the attention of chemists, and in almost any localities ought, if well worked, to add very largely to their returns.

WASHING POWDERS.

HAGER (Pharm. Centralhalle) says: "The value of a soap is proportional to its richness in fatty acids. Good soaps contain 50, 60, and 70 per cent. of thesc. If the composition of the highly-advertised washing aids is regarded in the light of this fact, a new idea of their value and economy will be formed." He then gives the following analyses:-

The so-called "English Washing Crystal" is an impure, half-efflorescent crystallised soda, containing a large pro-

portion of sodium sulphate and common salt.

Under the name of "Washing Crystals" simply a filtered solution of borax and soda has been introduced.

The "English Patent Cleansing Crystal Washing Powder" is a half-efflorescent soda, containing about 25 per cent. of Glauber's salts.

The "Washing and Cleansing Crystals" (Harper Twelvetrees & Sons') are pure crystallised soda, with 1 to 2 per cent. of borax.

Krimmelbein's "Wool-washing Composition" is a mixture of 35 parts of dried soda, 10 parts of soap-powder, and 10 parts of sal'ammoniac.

Ward's "Wool-washer" is a mixture of 90 parts of

effloresced soda crystals, with 10 parts of soap-powder.
The "Universal Washing Powder" (Henkel's) is a waterglass containing soda, with a small percentage of tallow soap and starch-powder.

Hudson's "Soap Extract" is a mixture of crystallised soda and soda-soap, containing water (soap 14:3, anhydrous soda 30, and water 55).

A washing powder for the finest white linen is a powdery mixture of 90 parts of effloresced soda, with 10 parts of hyposulphite of soda and 2 parts of borax.

The so-called "Finest Brilliant Elastic Starch" is a mix-

ture of about 7 to 8 parts of stearine with 100 parts of wheaten starch (melted stearin is mixed with about 15 times its weight of starch, and after cooling powdered and combined with the rest of the starch).

The "Berlin Prepared Brilliant Dressing Starch" is good wheaten starch mixed with 2 to 2½ per cent, of borax.

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SEE SEABURY & JOHNSON'S Advertisement of INDIA RUBBER POROUS AND SPREAD PLASTERS on page 103.

HAWKER'S JUJUBES. See page 5.

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PHARMACEUTICAL POLITICS.

THE breeze of gentle excitement which the month of May usually brings to pharmaceutical interests has this year passed over us without developing into a storm. The two societies which together represent the varied interests of the trade both had the pleasant duty of recording a legal victory of considerable importance. The Trade Association had repulsed the attack of the apothecaries, and the Pharmaceutical Council had secured a valuable decision from the Court of Queen's Bench in favour of the repression of the sale or dispensing of poisons by Corporations, a decision which we observe with pleasure has since been finally submitted to by the defendants. While we fully recognise the importance of the actions thus won by the Pharmaceutical Council, we are bound to discount in some degree the rather excessive amount of glory which the members of the Council are disposed to award to themselves as they contemplate their victory. The real truth is that the effort was made too late to win the best results. During the year 1873 we pressed the Council on four or five distinct occasions to prosecute the promoters of an establishment which was started in Oxford Street with the express object of supplying drugs and dispensing prescriptions. The Council had not the courage to commence the action, and the practice thus encouraged has since grown to serious proportions.

The election of Mr. Barclay to the Presidency of the Trade Association is only the barest compliment which could have been paid to that gentleman. It was his willingness and capacity for work which made the Association a possibility, and it has been to a large extent by the infusion into its counsels of his spirit that it has become a power. Mr. Jones retires from the presidential chair with the cordial respect of all who have come into contact with him. His leadership has been neither rash nor timid, but the three years which have passed since his election as the first President of the Association have fully justified not only the choice then made, but also the formation of the Association itself.

It is paradoxically true that the comparatively smooth waters into which the Trade Association has now floated arc its greatest danger. A sufficiently large proportion of its members, recognising the good work which it has accomplished, and the necessity of readiness for prompt action when necessity arises, will, we have no doubt, continue in that bond of union which has compelled legislators, analysts, and apothecaries to regard the interests of chemists and druggists more respectfully than they ever did before. But there seems to be, unfortunately, among chemists a very large number, not unwilling to join in the shoutings of complaint or triumph, but quite content to leave the paying part of the business to those who choose to saddle themselves with it. It cannot be the fact that a good half of the chemists and druggists of England were indifferent to the attempt which was made by the Society of Apothecaries, or at least by an important section of that company, to stamp out the free exercise of their business by chemists and druggists. It is a fact that a body of medical men had banded themselves together with a distinct intention of crushing the rights of chemists in this respect; it is a fact that the letter of the law was several times declared to be in their favour; and yet it is also a fact that they have been ignominiously beaten, and that the exposure and public condemnation of their conduct have ensured the safety of the trade for the future. Finally, it is a fact, and not a pleasant one to record, that more than half of the chemists and druggists of this country have not contributed a single shilling towards the expenses attending the attainment of that object.

The recent election of the Pharmaceutical Council shows unmistakably the current of opinion among the members, or rather among those who take enough interest in the Society to exercise their right of voting. The place of honour is given to Mr. Churchill, of Birmingham, his connection with the Trade Association having evidently operated in his favour. On the other hand the late President is ominously low among the successful candidates, while Mr. Cracknell, whose vote was invariably given on the Tory side, is excluded altogether. Respect for the past services of his father has given Mr. Squire a seat, but no one knows what views he represents. The much larger number of votes polled by Messrs. Symes and Richardson, the other new Councillors, is evidence of the greater popularity of progressive politics. Notwithstanding this infusion of Liberalism, however, it is only spersons of peculiarly robust faith who will anticipate a more vigorous policy from the Pharmaceutical Council. True to its reactionary instincts, the first act of the new Council was to substitute in the Presidential chair for the timid Conservatism of Mr. John Williams the uncompromising Toryism of Mr. George Webb Sandford.

A GRATEFUL PATIENT.

MR. Wombwell's elephant "Lizzie" has sealed the verdict of the Westminster jury, and the unanimous approval of counter-preseribing by elemists and druggists, which was given by the voice of the country at the time of the Shepperley trial, in an emphatic and pleasing manner. We have ascertained that the eurious facts here narrated are strictly true.

Wombwell's menagerie visited Tenbury on April 28, 1874, and "Lizzie," after a long walk, drank from a spring a quantity of cold water. She was much heated with the walk, and was soon afterwards attacked with a violent fit of gripes, which continued for some time. Mr. John Turley, a chemist, of Tenbury, who had acquired a special reputation for the treatment of animals, was sent for, and administered, with a tube, large doses of laudanum, aloes, asafeetida, turpentine, and sulphuric ether. He also gave clysters frequently. The second day she was very thirsty, and drank upwards of 10 gallons of linseed-tea, containing mashed potatoes and sugar. During the next two days she took nothing, and the medicine did not operate until the fourth day. Two quarts of liquid blister had also been applied to her side, and this seemed to give great relief.

The menagerie again visited Tenbury about the middle of last month, five years having elapsed. As the procession passed down the street the elephant recognised, at his shop door, her former doctor. With a refinement of feeling which does her infinite credit, she crossed the road and placed her trunk in Mr. Turley's hand, making a peculiar grunting noise as if she were pleased. Mr. Turley visited the exhibition, and was again greeted with every demonstration of affection, the embraces of "Lizzie" at first occasioning some alarm. The narrative is a very remarkable one, and is quite worthy of a place among the stories of animal intelligence which have been handed down to us from Androcles onwards.

SUSPENDED ANIMATION.

On May 26 nearly a column of the Times was devoted to an extract from the Brisbane Courier of January 11, which described in glowing terms a discovery alleged to have been made by a Signor Rotura. This gentleman asserts that he has discovered a South American vegetable poison named moolara [ourari or curare?] which has the power of perfeetly suspending animation till another vegetable product obtained from an astracharlis [astragalus?] is administered. A most circumstantial account is given of some experiments which have been tried. Among others, we are told the woolara was injected into 14 sheep, 4 lambs, and 3 pigs, which were stacked in a heap in a freezing-chamber to prevent decomposition. They remained 19 days in the trance. A lamb was then taken out, immersed in warm water to raise the body to blood heat, and the antidote injected. Artificial respiration was resorted to, and in 10 minutes the animal was struggling to free itself, and when released skipped away as if nothing had happened. Signor Rotura has left Brisbane on a visit to South America to procure a large supply of the necessary drugs. On his return he proposes to suspend the animation of sheep, pack them in a refrigerating-steamer, and send them over to Europe to be revived and sold. We need hardly say that this story requires far more confirmation than it has yet received. Indeed, the Times itself published on June 3 an

article a column and a half long which committed it to nothing, while it insinnated that the affair might after all be a hoax; and rumour says that the Brisbane Courier has confessed that the report is a romanee. The writer evidently forgot that the heart's action cannot be renewed if it is suspended beyond a certain limited time.

A TECHNICAL INSTITUTE.

MANY of the technical societies in London have no meetingrooms of their own. In 1877 Dr. Siemens snggested in his inaugural address to the Iron and Steel Institute that it would be desirable to have a building for the accommodation of these societies, and he has followed up his suggestion by the munificent offer of 10,000l. towards the erection of a suitable building at Westminster. The Council of the Iron and Steel Institute have accepted the offer, and have appointed a committee to eonfer upon it with the Institution of Civil Engineers, the Institution of Mechanical Engineers, the Institute of Naval Architects, the Society of Telegraph Engineers, and such other bodies representing applied science as may suitably be included in this project.

ENGLISH TRADE RIGHTS IN FRANCE.

LAST month an interesting trial came before the Civil Tribunal of the Scine, at Paris. Mcssrs. A. Rowland & Son, of Hatton Garden, sued a batch of French perfumers for damages occasioned by infringement of their trade-mark, and counterfeit of their Macassar oil. The plaintiffs had registered their trade-mark in France, in 1861, and again in 1876, but it was shown for the defence that a certain printer had, since 1851, regularly supplied perfumers with labels and wrappers which were an almost exact copy of those used by the plaintiffs. They bore Messrs. Rowland's signature, gave their London address, and even added the name and address of the English printer. The only appreciable difference was that the name "Rowland" had been translated to that of "Rouland." The defendant claimed that Messrs. Rowland having tacitly permitted this proceeding so long, their name and product had now become public property. Another technical defence was that, as foreigners, Messrs. Rowland had no locus standi in that Court. The judgment overthrew both these pleas. The Treaties of Commerce of 1860 and 1873, between England and France, stipulate reciprocal protection in the matter of merchandise marks. The title, Macassar Oil, may have become public property, but the name of Rowland was still to be regarded as the exclusive property of the plaintiffs. The defendants were, therefore, ordered to pay the expenses of the action, and the following damages: Blcuze-Hadancourt, 1,000f.; Delettrez, 200f.; Panafien, 1,200f.; Cabridens, 600f.; Blaize 200f.; Faré-Guerin & Co., 200f.; and Pousot (the printer), 200f. The latter was to give up his plates or stones, and the stock of labels and Macassar oil in the possession of each of the defendants was to be confiscated.

THE PARIS SILVER MEDAL FOR AMERICAN ESSENTIAL OILS.

THE New York Oil, Paint, and Drug Reporter is responsible for a history which we hope will long be rare in connection with commercial houses. Among the awards after the Paris Exhibition of last year was that of a silver medal to Messrs. Hale & Parshall, of Lyons, Wayne County, New York, for their collection of essential oils of peppermint, spearmint, and others. Looked at from the lowest point of view, we doubt if those medals were worth the attention of

a respectably clever cheat. At no previous exhibition were the awards so openly given on the strength of the reputation and previous honours gained by the exhibitors, regardless to a great extent of the quality of the display there produced. This fact has made the Paris awards in the opinion of competent persons lower in value even than those of preceding exhibitions. Professor Jenkins, one of the American jurors, has stated that in voting for a silver medal to Messrs. Hale & Parshall he was considerably influenced by a label which was circulated by the firm, and which purported to be a lithographed facsimile of the Centennial report on their exhibit. It ran thus:-

" For the beauty and purity of their products.

"For the good quality of these oils, which they distil from plants grown by them in Wayne Co., N.Y., U.S.A.
"The largest essential oil distillery in the world."

To this was added the signatures of the judges and officials. A cablegram was sent from Paris to Hale & Parshall, asking for the original report, and in reply Alfred S. Hale sent an affidavit swearing that the label was "snbstantially correct." The following extract from the official report will indicate how nearly it approached verbal accuracy:-

460. Hale & Parshall, Lyons, N.Y., U.S.-OILS OF PEPPERMINT, SPEAR-MINT, WORMWOOD, AND TANSY.

Report. - Commended for the good quality of these oils, which they distill from plants grown by them and by others it. Wayne County, New York.
461. H. G. Hotchkiss, Lyons, N.Y.—OIL OF PEPPERMINT AND OTHER ESSENTIAL OILS.

Report.—Commended for the beauty and purity of their products.

Mr. Hotelikiss has prayed the American Commissioner, Governor McCormick, to withhold the medal from Hale & Parshall, on the ground that it was obtained by false and fraudulent representation, and in support of his petition he produces an affidavit signed by the lithographer who printed the labels, and who swears that the original document was brought to him by Alfred S. Hale, with instructions to add some words and take out others, and print 2,000 of the manipulated labels.

If Hale & Parshall publish any explanation in defence of their conduct we shall be happy to give it every possible publicity, but if the facts are as stated they must take the consequences of being convicted of a contemptible fraud.

PHARMACIE CENTRALE OF THE FRANCE.

An unpleasant sensation has been provided for French pharmaciens by the unexpected revelation of an extraordinary deficit in the value of the shares of the celebrated Pharmacie Centrale. This concern, which was founded by the late M. Dorvault, and conducted by him until his death, was apparently in the most flourishing condition. It is a sort of joint-stock company, the shareholders being necessarily pharmaciens, and invariably customers. The nominal eapital was five million francs, and the company have offices and warehouses in Paris, Lyons, and Marseilles, and factories at Bordeaux, Nantes, and Toulouse. The great drug business of Menier was absorbed into the concern some 15 years ago, and of late years the turn-over has reached the snm of seven and a half million francs, or 300,000l, sterling. For some time previous to the death of M. Dorvault there had been among some of the shareholders of the company a muttering of revolt against the imperial system in which the late brilliant and energetic director had ruled the whole of the affairs, and the result was that a committee had been appointed to investigate and report on the real value of the assets of the business. The death of M. Dorvault last February, and the consequent arrangement of his accounts, caused an extension of the investigation, and the conclusions arrived at have lately been made public.

M. Dorvault had nearly a million francs invested in the business. Besides receiving interest on that in common with the rest of the proprietors, he, as director, was paid 40 per cent. of the remaining net profit, 60 per cent. going to the shareholders. For some years past M. Dorvault's share has averaged about 100,000 francs (4,000l.) per anuum. The serutiny has shown, however, that for years past the apparent profits have only been realised by keeping on the books a mass of bad and doubtful debts, and by omitting to allow with anything like sufficient accuracy for depreciation of stock and material. The increase of business gained by the union with Menier seems to have been partly responsible for the present position of affairs. That connection in M. Dorvault's hands has proved very unprofitable.

Among the figures now set forth are some which tell too plainly how necessary the investigation had become. For example, there are 156,988f. 13c. at Lyons for "erreurs inconcevables," 65,429f. 30c. at Marseilles for "negligences de comptabilité." Bad and doubtful debts amount to 853,724f. 34c. The committee believe that 10, 15, or perhaps 20 per cent. of this sum may yet be realised, and they will make their utmost efforts to obtain what they cau, but in order to disencumber subsequent balance-sheets this item will be reduced to unity, a single franc to figure in future reports, in order that the matter may not be lost sight of.

The application of these heroic measures is not a mere matter of accountancy. It is only fair to the memory of the late director to state that both he and, since his death his widow have cordially aided the committee in their determination to restore the Pharmaeie Centrale to a healthy commercial position, and a sum of nearly 400,000 francs has been agreed upon as the share of loss which the Dorvault family should suffer, Madame Dorvault also consenting that the payment of her stock in the company shall extend over five years. The rest of the puuishment falls on the company. A reserve fund of over 200,000f. is swept away, while the nominal capital of the company is to be reduced from 5,000,000f. to 3,750,000f. That is to say, every share of 100f. will now be worth only 75f., and will only be entitled to interest on

The presentation of the report, which we have summarised above, to a rather excited meeting caused a sharp discussion, but the proposals of the committee were all ultimately carried. Afterwards M. Emile Geuevoix, who had been the most active member of the committee of investigation, was, appointed director in the place of M. Dorvault, but the salary which the committee had proposed for him of 50,000f. was reduced to 30,000f, with residence. It is understood, however, that with the return of better days the director may expect an advance on the last-named amount, and the séance concluded with a unanimous vote awarding a gold medal to M. Genevoix in recognition of the painful but salutary services he had rendered to the Pharmacie Centrale in this searching inquiry. M. Emile Genevoix is the actual President of the General Association of the Pharmaciens of France, and we are informed by those who know him that he is peculiarly fitted for the onerous task which he has undertaken.

The Pharmacie Centrale is far too firmly established to leave room for doubt as to its future, if the present determination of its directors is supported and carried out with unflinching courage. But its dangerous position, which has happily been recognised in time, is one more proof, if such were needed, of the absolute importance in every business of the most unswerving fidelity in all the details of bookkeeping.

THE CHEMICAL SOCIETY.

Thursday, May 14.

MR. WARREN DE LA RUE, President, in the chair.

The following papers were read:-

"On Nitrification" (Part II.), by R. Warington. The author finds that light hinders the conversion of ammonia salts into nitrites and nitrates by the nitrifying ferment; the presence of carbonate of calcium is indispensable; nitrification is stopped by a temperature of 40° C.; there is a period of incubation after the addition of the ferment, during which no effect is produced; this period is increased by using stronger solutions of ammonia salts, but diminished by raising the temperature; in some cases nitrites, in others nitrates, are formed.

"On the Alkaloids of the Veratrum Family" (Part III.), by C. R. A. Wright and A. P. Luff. The authors have obtained two new crystalline alkaloids—pseudojervine, melting at 299°, and rubijervine, melting at 237°—and a new amorphous

base, veratralbine, from veratrum album.

"On the Alkaloids of the Veratrums" (Part IV.), by C. R. A. Wright. From veratrum viride the author has obtained jervine, pseudojervine, rubijervine, veratrine, and cevadine.

"On the Alkaloids of the Aconites" (Part IV.), by C. R. A. right and A. P. Luff. The authors have examined Wright and A. P. Luff. Japanese aconite roots, and obtained a base, japaconitine, melting at 185°, resembling aconitine. By saponification a new base, japacouin, was formed. The yield of alkaloids from Japanese aconite is about three times that from A. napellus.

"On the Action of Hydrochloric Acid on Manganese Dioxide," by S. U. Pickering. The author criticises, and in the main disagrees with, the conclusions of W. W. Fisher as

to the existence of manganese tetrachloride.

"On some Reactions of the Ammouiochloride of Magnesium, known as Magnesia Mixture," by H. D'Arcy Power. The author has observed that potassium salts, and especially potassium iodide, precipitate magnesium hydrate from this solution to an extent equal to 46 per eent. of the magnesia

present.

"The Composition of Cows' Milk in Health and Disease," by A. Wynter Blyth. The author has separated from whey two alkaloidal bodies by precipitation with nitrate of mereury—galactine, and lactochrome; also a supposed glueoside precipitated by tanniu. He gives details as to the composition of milk from healthy and diseased cows, and concludes that a cow suffering from very acute disease may give milk differing in no essential feature from normal milk.

"On the Effect of Alcohol on Saliva, and on the Chemistry of Digestion," by W. H. Watson. Alcohol hinders markedly the conversion of starch into sugar by saliva; a trace of hydrochloric acid, on the other hand, increases the rapidity of the conversion.

Thursday, June 5.

MR. WARREN DE LA RUE, President, in the chair.

It was announced that a ballot for the election of Fellows would be held at the next meeting (June 19). The follow-

ing papers were read:—
"A Contribution to the Theory of Fractional Distillation," by T. E. Thorpc. The author has observed that of a mixture of equal volumes of carbon tetraehloride b.p. 76.6° and of methyl alcohol b.p. 65:2°, 46:5 per ceut. of the whole distils over at 55:6° to 55:9°—10° lower than the boiling-point of its most volatile constituent.

"Preliminary Note on the Action of Organozine Compounds on Quinones," by F. R. Japp. The author has studied the action of zinc ethyl on phenanthrene quinone, and obtained a substance crystallising in faintly-yellowish plates, having the composition $C_{16}H_{14}O_2C_2H_6O$. He hopes by these reactions to distinguish quinones from double tretones.

"Third Report to the Chemical Society on Researches on some Points in Chemical Dynamics," by Dr. Wright and Messrs. Luff and Rennie. This is a lengthy paper, in which the action of carbonic oxide and hydrogen on a uniform weight of copper oxide has been studied at various temperatures; the results are plotted out in numerous curves. In all cases carbonic oxide reduces more quickly, or at a lower temperature, than hydrogen.

"On Fractional Distillation," by F. D. Brown. The author has studied with great care the distillation of mixtures of benzine and carbon disulphide.

"On Chlorotannic Acid," by J. W. Mallet. A bottle containing a strong solution of stannous chloride, after standing for a year, deposited a transparent jelly-like substance, which proved to be SnO₂IICl. Soda and ammonia salts were obtained.

"On Indigopurpurin and Indirubin," by E. Schunck. Baeyer and Emmerling obtained a red colouring matter from isatin, which they named indigopurpurin; this is identical with indirubin, obtained by the author from indican. The author considers that the name "indigopurpurin" should be abolished.

A RURAL DEAN ON "STORES."

THE following was written by a Somersetshire clergyman and rural dean in reply to a prospectus advocating the merits of one of the new "stores": -

"Sir,--You have been good enough to send me a paper proclaiming the vast advantages of joining a certain company, cntitled 'The Junior Army and Navy Stores (Limited).' Now, sir, what have we parsons got to do with the Navy and Army except to pray for them and help pay them ?-both of which I have already done for towards half a century! And as for joining the newfangled companies, I have four distinct objections to them, which I hope you will allow me respectfully to state:—1st. I have no wish to rob good honest tradesmen, who have to get their living by myself and others. I am a curious old man of the Sir Roger de Coverley company. My country tailor makes my coat, and my village shoemaker my shoes. If there were but a hatter here, he should have the honour of crowning me. I go out of my parish and district for nothing hardly which I can get in them, and I intend so to proceed till one of my own old elms is sawn up for my coffin. 2nd. I am a staunch Conservative, and don't want to turn my commercial friends into Radicals and Liberatiouists. Let the Whigs do as they please. 3rd. As an English parson, I teach and practise my catechism, which tells me 'to do unto others as I would they should do unto me.' Now, while my tenauts pay me to the day my rents and tithes, and while my shopkeepers are honest, civil, and obliging, why should I say 'Thank you, Messrs. Brown, Smith & Joues, but I deal now with Messrs. Sweedenburgh & Smithereen, and the new Cheap Store Company '? 4th. Though not a miser, I have a weakness for taking care of my mouey—the principal, that is, whatever becomes of the interest. I am not partial to joint-stock relations. I have more confidence in a cow than a Khedive, and would rather rest content with my 'two and a half' from a dirty acre or two, thau run the risk of eight or nothing in the 'Artificial Rain Company' or the Zulu Fifty per Cents. If people would take the advice of a man that has seen a little of life, I would venture to tell them, 'Deal at home. Pay ready money, and you will get discount from your tradesman. Buy nothing till you can afford to pay for it. Help your shopkeepers to sleep comfortably, and you will sleep better yourself. Keep away from foreign parts and foreign folk. And though some of the juniors may call you a fool for your pains, you will sit all the easier in your arm-chair, and not fancy that your dressing-gown, hanging loosely on its peg in the glimmering light of your chamber, is the ghost of some poor, starved, injured shopkceper, that hung himself when you joiued "The Civil Service Supply Association!" '-I have the honour to be, sir, your very faithful servant, J. H. STEPHENSON, Lympsham."

STAIN FOR FLOORS.—One ounce Vandyke brown, in oil; 3 ounces pearlash; 2 drachms dragon's blood; one quart boiling water. Mix. The stain may be used hot or cold, and applied with a brush, which should be used with the grain of the wood and never across. The floor should of course be well smoothed and sandpapered, the eracks being filled with plaster of Paris. When the stain is dry, size with glue, and finish with hard oak varnish.



Literary Notes.

Muter's Chemistry.*

WE had formed a high ideal of the second edition of Muter's "Chemistry." The first issue was so fresh, sparkling, and sound that it immediately received the welcome it deserved, and its preface contained these words: "Should it find favour it is the author's intention to extend it greatly in another edition." Possibly Dr. Muter has in view the third or fourth; if not we fear this "good intention" has become a pavingstone. We must confess to a little disappointment. Improvement there certainly is, and additions have been made, but ouly in details, which may fairly be called finishing touches. There has been no extension of the original work, but it has been re-arranged. In the first edition the analytical characteristics of each metal and radical were enumerated on the page facing that containing the description of its uses and other properties, and this was one of the novel and distinctive features praised by the reviewers. The change, and the reasons for it, are described in the preface: "Having recognised the somewhat inconvenient size of my 'Pharmaceutical Chemistry,' and the possibility of an accident in the laboratory spoiling an expensive work, not to mention the difficulty of turning over pages of synthetical matter to find the analytical point sought for, I have determined, in issuing the Second Edition, to divide it into two distinct portions. The First Portion contains all the theory and descriptions . . . and is inteuded for home study, while the Second Portion . . . contains all the practical matter . . . for use in the laboratory."

Each page of the present edition now contains one-third more matter than before. The type used is the same, and the economy has been effected by removing the spaces.

It is a pity that the theoretical parts of the first chapter have not been thoroughly revised. They are very concise, but the language in many cases is anything but accurate, and the student who gathers his ideas from this work alone will certainly be fogged. In these passages popularity has too often been preferred to precision, but we must make a strong plea in favour of the latter. No lens is worth much if its definition is faulty, and twenty indefinite notions are not so valuable as a single clear idea.

Macaulay warns us to judge literary work not by ideal, but by contemporary, standards. Muter's "Chemistry" will certainly be able to hold its own in any "battle of books," but we still look forward to extended editions. The indexes and tables of contents are as near perfection as possible: they are the work of Mr. Ince.

"THE Villa Gardener Manual for 1879-80" (the Villa Gardener Office, Salisbury Square, E.C., 1s.) contains a most useful garden calendar, excellent guidance for the amateur in numberless details of plant culture, and a variety of household information, which must give it a permanent position in any family to which it finds its way.

SPON'S "Encyclopædia of the Industrial Arts, Manufactures, and Commercial Products" (E. & F. N. Spon. Edited by G. G. André, F.G.S.), continues to be of special interest to chemists. Part IV. was devoted entirely to alcohols, and Part V. is mainly a carefully-prepared treatise on alkalies. So far one-sixth of the work has been published, and the first letter of the alphabet has not yet been exhausted. The letter A evidently represents an important section of our commercial products.

^{* (1.) &}quot;An Introduction to Pharmaceutical and Medical Chemistry. Pp. 16+398. (2.) "An Introduction to Analytical Chemistry." Pp. 12+216. By Dr. John Muter, M.A., F.C.S. Published at the South London School of Pharmacy.

THE "Pharmacopecia of the British Hospital for the Diseases of the Skin," edited by Balmanno Squire, M.B., the Senior Surgeon (London: Churchill), is a useful addition to our formulae books. It gives in very brief compass the results of the experience of the hospital, does not repeat formulae from the B. P., and comments and cautions by the editor are inserted where necessary.

"A MANUAL of Midwifery for Midwives," by Fancourt Barnes, M.D. (London: Smith, Elder & Co.) This is a treatise especially intended for the use of persons seeking the diploma of the Obstetrical Society of London. It is concisely written and freely illustrated, and will no doubt serve a useful purpose by providing important technical instruction which otherwise could only be found in much larger works.

Messrs. E. F. Teschemacher and J. Denham Smith have published in pamphlet form a paper "On the Estimation of Phosphoric Acid by Magnesia for Commercial Purposes" (London: Hardwickc, 2s.). They describe their process in detail, the purpose being to obtain the phosphoric acid in phosphates as pyrophosphate of magnesia. It appears that their method gives generally lower results than other chemists obtain, but the authors maintain that this is the fault of the other processes. At any rate they now offer theirs for skilled criticism.



THE SALE OF A BUSINESS. DUNCOMBE v. HACKETT.

This was an action for the specific performance of an agreement for the sale of a chemist and druggist's business at Scarborough. The trial was heard by Vice-Chancellor Bacon on May 20.

Mr. Horton Smith, Q.C., and Mr. Oswald were for the plaintiff; Mr. John Cutler appeared for the defendant, who

filed a counter-claim.

Mr. Horton Smith, Q.C., in opening the case, said that the plaintiff in 1876 was carrying on the business of a chemist and druggist at Raynham, Kent, and the defendant was also a chemist and druggist, having one place of business in the North Marine Road, and another in Leading Post Street, Scarborongh. In consequence of ill-health the defendant was desirons of selling his Leading Post Street business, which he advertised in the ordinary way. The plaintiff, being anxious to Icave Raynham, answered the advertisement, and negotiations were entered into which led to an agreement being come to; and the question which the Court was now called on to decide was whether the parole agreement set up by the plaintiff, or the agreement under seal dated November 30, 1876, pnt forth by the defendant, was binding on the parties.—By the statement of claim the plaintiff alleged that the defendant agreed to sell him the lease of the honse, goodwill, fixtures, stock-in-trade, &c., of the Leading Post Street business in consideration of payment of the sum of 4951.; whereas the agreement in writing, drawn up by the defendant's solicitor, and executed on November 30, was to the following effect: - That for one year Hackett was to carry on the Leading Post Street business as Dnncombe's assistant, at a salary of 21. per week. At the expiration of 12 months Duncombe covenanted to sell and assign to Hackett the whole of the stock-in-trade and effects on the said premises for the snm of 4957.—3007. to be paid down, and the balance in four equal instalments. The plaintiff alleged that this agreement was materially different from

the draft agreement which he had previously read over and assented to; that the alterations were made without his knowledge or consent; that he signed the document without reading it over, or having it explained to him. The plaintiff denied that he had ever agreed to act, or had acted, as the defendant's scrvant, or that he had rendered any accounts. The snm of 125% which he had paid to the defendant he had paid in part payment of the purchase-money of the lease of the house, and the stock-in-trade and goodwill of the business. On December 31, 1877, a fire broke ont on the premises. The stock-in-trade was insured in 4351, and the defendant having received the money to cover damages from the fire insurance office, the plaintiff sought to have it declared that the money so received by the defendant should be accounted for by him and placed to the plaintiff's credit as part payment of the purchase-money. The defendant, on the other haud, claimed to retain the insurance money, and alleged that in February, 1878, the plaintiff, in Mr. Williamson's office, repeated his intention of leaving Scarborough, and rendered such account as he was able-admitting that he was indebted to the defendant in the snm of 150l., in respect of which he paid 30l., and undertook to pay the balance. Three days afterwards the plaintiff commenced his action to have the agreement reformed and rectified, and for other relief. The defendant thereupon filed a counter claim by which he sought to recover 1201. from the plaintiff. A lengthy correspondence was put in and read for the purpose of showing that it was the intention of the parties that the lease of the premises was to be included in the sale, which was an out-and-out one. The plaintiff having been examined viva voce,

The Vice-Chancellor, without ealling on counsel for the defence, said he was bound to give effect to the agreement in writing of November 30, 1877. Apart from the improbabilities of the case set up by the plaintiff with reference to the agreement, the conduct of the plaintiff whilst he was in possession of the business was quite consistent with the the case made out by the defendant. There must, therefore, be judgment for the defendant with costs.

With reference to the counter claim,

Mr. Horton Smith, Q.C., submitted that no order could now be made on the counter claim. On Wednesday morning (21st) the learned counsel, at the sitting of the Conrt, said he had looked up the case of Rolfe r. McLaren, and he now withdrew his contention that no order should now be made on the counter claim.

The Vice-Chancellor thought that issue had been joined on the counter claim; he thought that the issues were properly opened, and that on the evidence of the plaintiff himself the defendant was entitled to judgment on the counter claim.

Judgment, therefore, for the defendant with costs in the action, and the counter claim allowed with costs. Judgment to be dated from the 21st.

A PARTNERSHIP DISPUTE.

In the Chancery Division of the High Court of Justice, on Wednesday, Mr. Chitty, Q.C., moved on behalf of the plaintiff in a case of "Fletcher r. Lorimer" for an injunction against the defendant. He said that in this case Mr. Cecil Russell appeared for the defendant. The plaintiff was in possession of an order obtained ex parte from Mr. Justice Hawkins to the effect of restraining the defendant from preventing letters addressed to the plaintiff from reaching him. If Mr. Cecil Russell would submit to that order being continued till next motion day, he (Mr. Chitty) would not now bring on his motion. The dispute was a partnership dispute, plaintiff and defendant being both chemical mannfacturers. -Mr. Cecil Russell said he understood that the plaintiff had sent round circulars to the customers of the firm containing a notice of this, and that the letter which the plaintiff complained of as addressed to the customers of the firm had been withdrawn, so that the letters for the plaintiff could now be received by him in due course; but he thought that sending circulars to the old customers of the partnership was going rather further than was fair.—Mr. Chitty: I am quite willing not to do that, if your Lordship pleases.—His Lordship: Oh, yes; send no more circulars.

Bankrupteies und Liquidations.

JOHN RICHARDSON, Druggist, 267 High Holborn.

The debtor, carrying on business as above in the name of "Field & Co.," and described also as of Lancaster Street, Hyde Park, and Pimlico Road, baker, has presented a petition for liquidation, and his affairs were brought before the Court on April 26. Mr. F. C. Willis applied for the appointment of Mr. H. W. Pettis, accountant, Guildhall Chambers, as receiver of the estate, and for an order restraining various actions until after the meeting of creditors. The liabilities were estimated at about 3,700*l*., and assets 1,000*l*. The debtor was being sued by Messrs. McDougall Brothers, Mark Lane, for 88*l*.; Messrs. W. & G. Clowes, Charing Cross, 40*l*.; the West London Commercial Bank, 475*l*.; and by Messrs. Wray & Co., 110 Fleet Street, for 84*l*. 11s. 7*d*. Mr. Registrar Pepys made the desired appointment and granted an injunction. On a subsequent day His Honour authorised the receiver also to act as manager.

Re S. BOWDITCH.

The debtor, described as of 134 Fenchurch Street, drysaltery broker, trading in partnership with George Crowther, and residing at Peckham, has presented a petition for liquidation, and Mr. Johnson applied to the Court on May 27 for the appointment of Mr. H. A. Dubois, accountant, Chancery Lane, as receiver, and for the usnal restraining order. The debts were about 550%, and the assets consisted of the debtor's interest in the partnership assets and household furniture, subject to a bill of sale. Mr. Registrar Pepys granted the application.

SAMUEL BARRETT, Frizinghall.

A PETITION was filed in the Bradford Bankruptcy Court on May 20, on behalf of Samuel Barrett, cliemist and druggist, Frizinghall, with liabilities estimated at 450*l*.

Chemistry.

PETROLEUM TESTING.

MR. HOLLY, of the firm of Lockwood Brothers & Holly, New York City, has introduced an instrument in which the galvanic spark is utilised in estimating the flashing-point of petroleum. It is claimed that this instrument secures far greater uniformity in the results obtained by different operators than any other device.

HEAT AND MOTION.

M. PICTET recently demonstrated before the Academie des Sciences, theoretically and experimentally, the definition of temperature, that it is "represented by the length of calorific oscillation of the molecules of a substance." He verifies these two laws—(1) The higher the points of fusion, the shorter are the molecular oscillations; (2) The temperature of fusion of solids corresponding to equal lengths of oscillation, and the product of the lengths of oscillation by the temperatures of fusion, should be a constant number for all solids. This is an important addition to our knowledge.

FALSE AMBER.

MESSRS. MARKWALD & Co., amber merchants, of Grace-church Street, have informed the editor of the British Mercantile Gazette that false or imitation amber, which we described on p. 211 of our last number, is "highly detrimental to health... as has been proved by the greatest medical authorities of the continent." The latter assertion is grandly indefinite, and can never be disproved. But we desire names and circumstantial statements before we can believe that a compound of camphor, turpentine, and copal is poisonons—even at one-fifth the price of true amber.

BORAX: ITS USES.

The following snmmary of the uses of borax is taken from an advertisement in a technical journal. It is used by cement manufacturers, in the preparation of the finest cement; candle manufacturers, in the formation of the completely destructible wick; starch manufacturers, in the preparation of starch, giving a beantiful gloss; glass manufacturers, with barytes, sand, and soda; ironfounders and smiths, in dissolving the metallic oxides; dyers and bleachers, as a mordant and purifier; braziers, in welding; potters, for their glazes; tanners, for the quiek production of leather; chemists, grocers, and drysalters, for general household purposes; provision merchants, in preserving eggs, butter, lams, and fresh meat of every description; timber merchants, for preserving soft woods, making them hard and durable; dentists, for finxing purposes; and by medical men, for wounds and internal application.

Inbentions.

HYDRO-EXTRACTORS.

MM. PIERRON & DEHAITRE have bronght ont some improvements in their patent hydro-extractors or essoreuses. These are machines for rapidly drying chemical products, cloth, &c., and ntilise centrifugal action. The substance to be dried is placed in an inner perforated chamber which is rapidly rotated by a shaft and wheel. In the smaller sizes, worked by hand, it is not difficult to obtain 1,500 to 1,800 revolutions per minute.

EXPLOSIVES.

A CORRESPONDENT of the Berg. u. Hütt Zvitung gives the following analysis of explosives used as substitutes for gnn-powder: Diorexine—nitrate of potash, 50 per cent.; nitrate of soda, 25 per cent.; snlphnr, 12 per cent.; sawdust from hard wood, 13 per cent. Azotine—Chili saltpetre, 69 05 per cent.; carbon, 15·23 per cent.; sulphnr, 11·43 per cent.; petroleum, 4·29 per cent. Petralite—nitrate of potash, 64 per cent.; impregnated wood or charcoal, 30 per cent.; antimonium crudum, 6 per cent. Johnite—saltpetre, 75 per cent.; sulphnr, 10 per cent.; lignite, 10 per cent:; picrate of soda, 3 per cent.; chlorate of potash, 2 per cent. Carboazotine—nitrate of potash, 61·04 per cent.; sulphate of iron, 0·73 per cent.; soot, 24·65 per cent.; sulphur, 13·58 per cent.

POWDERS SOLIDIFIED BY PRESSURE.

M. Spring has been testing the possibility of producing solid masses from powders. The apparatus used was a solid steel prism with a cylindrical hole bored in its axis. This hole was nearly filled with the powder packed solidly by a steel stamper. A gradually increasing pressure of about 20,000 atmospheres was then applied by means of a screw. Nitre and poplarwood sawdust thus treated yielded homogeneous translucent masses like porcelain. The nitre was much harder, more transparent, and less easily broken than when fused. The poplarwood sawdnst could be easily broken at right angles to the line of pressnre, but in the other directions was harder than the natural wood. Chalk powder could be solidified only when slightly moistened. The process may perhaps be useful in obtaining pencils of snbstances which are intractable to ordinary processes.

THE AUDIOMETER.

On May 14 Dr. Richardson described before the Royal Society an instrument invented by Prof. Hughes, and named the andiometer. It is a combination of the telephone, a new form of microphonic key, and a Leclanché battery. By its means the power of hearing sounds can be accurately ganged and recorded on a suitable arbitrary scale. The one in use is divided into 200 degrees, the zero being the point of positive silence from the sound produced by the instrument through the telephone, and the maximum being

audible to every one not actually deaf. The first point observed with the new instrument is that the power of hearing sound is very sharply defined. The sound is abruptly lost within a range of one-hundredth part of the entire scale, both when the person can hear audibly and when he is more or less deaf. If the sound is suddenly moved from 15 to 5 on the scale, the weaker sound is inaudible, though if the seale had been gradually moved the sound at 5° would have been easily heard. Filling the chest and holding the breath increases the capacity for hearing for a few seconds. Holding the breath with the ehest not full does not produce the same result. Most persons hear better with the right ear than with the left, but physicians who have accustomed themselves to use the stethoscope with the left ear hear better with it than the right; and four persons who habitually listened to public discourses from the left side also heard better with the left ear. In a youth who had suffered serious defect of hearing for seven years, owing to partial destruction of the tympanum, and who in the right ear could only detect sound at 107°, there was an inability to catch all the sounds lying between 130° and 107°, until he could remember what he had to listen for. When the barometer stands at 30 inches Dr. Richardson can hear to zero with both ears, but when it is below 30 he fails to reach zero by 2° on the left side. It is found that various forms of disease, such as anæmia and vertigo, seriously impair the hearing power.

During the investigation it occurred to Dr. Richardson to construct an instrument for translating the movements of of the arterial pulse into telephonic sounds. This has been successfully accomplished, and the instrument has been named the sphygmophone.

Formula.

Local Anæsthetic in Dentistry.

Pulv. camphor	 	 	 	3vj.
Æther. sulphur.	 	 	 	31.

Apply this to the gum surrounding the tooth to be removed, until the gnm turns white, when the tooth can be extracted with scarcely any pain.—Dental Cosmos.

A BELGIAN PATENT TOOTH WASH.

A TOOTH WASH has been patented in Belgium by a Mr. T. L. Smits, the composition of which is thus described:—

								Parts
	Water							 950
	Urea			• •				 12
	Uric acid			• •				 •4
	Fixed salts							 7
	Urate, oxala	ite, an	d oxal	urate	of lime	e, cysti	n, &c.	 8.90
n	a little perfr	mc.						

As this is a fairly correct analysis of ordinary urine, Mr. Smits' "eau dentifrice" will only need to be named in order to be avoided. The *Chemical News*, in noticing the patent, asks, Is this a new way out of the sewage difficulty?

With

ANTI-FAT.

DR. FAIRBANK in the British Medical Journal says that "Anti-fat is most probably an extract of the fucus resiculosus, or 'popping seawced.' More than 15 years ago, he says, I gave some of this extract in pill (four grains three times a day) to a very corpulent lady, who in three months lost three stones in weight without any change of diet. Since then I have frequently given it for reducing weight depending on the accumulation of adipose tissue, and have never found it fail. The solid extract can be easily made into four-grain pills, which must, however, be kept in a stoppered bottle, as they readily absorb moisture from the air. I may say that a patient who has been lately taking it as an antifat, and who always suffered very much from rheumatic pains about the body, has been entirely free from such trouble while she has been taking the extract, a fact which she quite independently noted." In the advertisement of Anti-fat it is stated to be a "compound concentrated fluid extract of sea-lichens."

APERIENT PILLS.

DR. MACARIO publishes, in the *Nice Médical*, the following prescription, which has never failed him in certain forms of constipation, such as obstruction of the bowels arising from nervous troubles, as hysteria and hypochondria, or from a sedentary life, or from certain affections of the brain and of the spinal column.

						Centig	gramm	es
	Powder of sulphate	of ir	on	• •	 		10	
	Socotrine aloes				 		5	
	Powder of rhubarb				 		2	
	Extract of belladoni				 		1/2	
in i	etha dosa for one ni	111						

A pill is given at night immediately after supper; if no effect should have been produced in from 12 to 15 hours, two or three must be taken the next day; but as soon as they have operated, it is necessary to come down to one, giving it daily for a week, then wait for some time to see if the patient be cured. If not, the same treatment must be repeated for two or three days, and so on till the bowels begin to move regularly.

PURIFICATION OF SPIRITS FROM FUSEL OIL.

ACCORDING to the *Brennerci Zeitung*, a single agitation of spirit with the following compound will completely remove the fusel oil from potato brandy, and will leave the fluid beautifully clear:—

-			Pa	rts
Sugar of milk	 	 	 1	L
Starch powder	 	 	 :	2
Powdered albumon				5

About 4 oz. of the powder is sufficient for a gallon of spirits.

Personalities.

IT IS RUMOURED that Dr. B. Richardson has been offered 5,000%, for a lecturing tour in the United States.

Mr. G. Matthey, of the firm of Johnson & Matthey, is one of the candidates for the fellowship of the Royal Society.

GEORGE BENTHAM, Esq., author of the "Flora Australiensis," was, on the Queen's birthday, May 24, appointed Companion of the Order of St. Michael and St. George. The *Times*, in making the announcement, stated that he belonged to Victoria, Australia! He is the author of Bentham's "British Flora," conjoint author with Sir J. D. Hooker of the "Genera Plantarum," and author of many other important botanical works.

DR. FERDINAND VON MUELLER, C.M.G., Government Botanist, Victoria, was at the same time promoted to the rank of Knight Commander of the said Most Distinguished Order. He is conjoint author with Bentham of the "Flora Australiensis," translator of Wittstein's "Organic Constituents of Plants," and author of other works.

MESSRS. LORIMER & FLETCHER, mannfacturers of scale preparations and of various other chemical products, at the North London Chemical Works, Holloway Road, N., have dissolved partnership, and now carry on similar businesses distinctly. Mr. Fletcher retains the old premises, and will trade under the style of Fletcher & Fletcher. Mr. Lorimer has established himself in the Junction Road, N.

Mr. James Slipper,—We have received a letter from a son of Mr. Slipper, informing us that his father's illness was not so serious as was stated in our last. He had an attack, which assumed somewhat the form of an epileptic fit, and which was brought on by suppressed gout, but he has never had the slightest sign of paralysis. We are glad to hear that he is recovering.

MESSRS. DARBY & GOSDEN, of 140 Leadenhall Street, announce their intention of retiring from business as pharmaceutical chemists on this date (June 14). Their stockin-trade, formulæ, books of prescriptions, and everything connected with their business has been sold to Messrs. Corbyn, Staeey & Co., who will continue to carry on the concern on the same premises. The establishments of this firm will henceforth recur four times, like milestones on a journey, from Aldgate Pump to the Marble Arch.

THE City Press states that the new premises being erected for Messrs. Evans, Leseher & Evans, in Bartholomew Close, cover an area of more than 8,000 square feet.

Poisonous Postage Stamps.—In a letter to the *Times*, Dr. Hassal states that penny postage stamps contain lead in large quantities, derived doubtless from the red lead employed in colouring them. The pigment is easily removed, and may be a source of danger to persons who do not use a "damper," and have to stamp many letters.

THE will of Mr. Henry Silverlock, formerly of Wardrobe Terrace, Doctors' Commons, medical label printer, and of Wickham House, Wickham Road, New Cross, Kent, who died on March 4 last, was proved on April 28 by Mr. William Beckwith Towse and Mr. Thomas Wm. Marchant, sons-in-law of the deceased, the acting executors, the personal estate being sworn under 60,000%. The testator leaves to his wife his furniture and household effects and 600% per annum for life; to his half-sister, Elizabeth Hayman, 30% per annum for life; and all the rest of his property equally between his five daughters, Henrietta, Rosetta, Lauretta, Violetta, and Margaretta, and his two sons, William Henry and Thomas Brewer.—City Press.

Foreign Items.

OZONE WATER, a specialty largely sold in Germany, is stated in Hager's *Pharm. Centralhalle*, to contain no ozone. Its oxidising action is due to a little free chloriae, and it may be exactly imitated by very abundantly diluting the official chlorine water.

The World's Fair of 1883 at New York.—That the hundredth anniversary of the acknowledgment of the Independence of the American colonies by the mother-country in 1783 will be signalised by a grand world's fair in this city may be accepted as morally certain.—Scientific American.

STRYCHNINE AND MOLLUSCS.—It has been recently observed by Professor Haeckel, of Marseilles, that 25 milligrammes of strychnine may be administered to the molluse *Helix pomatia*—the edible snail which feeds on vine-leaves—without the animal showing any trouble. Such a dose would be fatal to higher animals.

THE ITALIAN PHARMACOPŒIA.—Italy has never yet had a Pharmacopœia, and though a committee has been in existence for a long time with the intention of preparing one, it seems to make no progress with the work. A conference of the committee was recently called at Rome, when only eight out of the 16 members attended.

THE STATEMENT of the commerce of Ceylon up to March 11 shows a considerable increase in the export of baled cinnamon, but a large decrease in that of chip cinnamon. Cocoanut oil shows an immense increase in export. In five months and a half the exports of cinchona bark have reached 87,437 lbs.—Colonics and India.

ENGLISH CHEMICAL APPARATUS.—The new laboratory of the Polytechnic School at Aachen, Prussia, lately received from the Patent Plumbago Crucible Company, of Battersea, a full assortment of crucibles, melting and muffle furnaces, assay muffles, scorifiers, &c. A few years ago such goods, instead of being obtained from England, would have been supplied from Saxony or France.

THE Montreal Hevald records, among the "incidents" of the celebration of the Queen's birthday there, that Messrs. II. Sugden Evans & Co., wholesale druggists, furnished the troops on the ground with lime-juice during the day. "This kind act is deserving of grateful remembrance, and there can be no doubt whatever that those who benefited by the kindness of these gentlemen will not soon forget the generosity which prompted this praiseworthy act."

LAVOISIER'S CHEMICAL APPARATUS.—At the sitting of the Academy of Sciences, on April 21, Professor Truchot, of Clermont Ferrand, reported the results of a careful inspection of Lavoisier's chemical apparatus, which is still in the possession of his heirs, and is well preserved. Some documents found prove that Lavoisier was the author of the work on the distillation of sea water, published anonymously in England, and attributed to Magellan.

The Post Office and Newspapers.—A novelty has been introduced by the French Post Office in the authorisation by the Department of the receipt of subscriptions for any French journal by the postmasters throughout the country. From the beginning of this month subscriptions may be paid at any post office for any journal, and the postmaster will give an official receipt to the subscriber, passing on the name and the amount to the office of the journal. A commission of 3 per cent, is fixed as the payment for the office, and most of the Parisian journals charge themselves with the trifling loss. This is probably in France a clever scheme to ensure a self-registering thermometer of political variations in public opinion; but the convenience is so obvious that we hope the British Postmaster-General will soon follow the example.

French Pharmacy Law.—M. de Calombet, Mayor of Langogne, has been suspended from his office for two months on the ground that he had connived with a local convent to deceive the authorities as to the appointment of a pharmacien to superintend the preparation and sale of medicines at that convent. A pharmacien had complained of the illegal exercise of pharmacy by the convent; an inquiry was made, and an order issued for the appointment of a properly qualified pharmacien; the convent had chosen, and the mayor had commended, a person who was engaged in a similar capacity in a monastery in another department, and who could do nothing but lend his name. This attempt at evasion was thought deserving of the severe reprimand administered by the Prefet.

A DENTAL MURDER IN SAN FRANCISCO.—A curious murder which occurred at San Francisco in April last has caused a sensation among the dentists of America. It appears that the Goodyear Vulcanite Company elaim a royalty of \$35 per annum from every dentist in the United States who uses their product, and it also seems that every dentist necessarily must use that product. They employed a man named Josiah Bacon to travel through the country collecting the dues, and Bacon added to the dislike which the circumstances of his profession inspired by a manner which was the reverse of conciliatory. One man, Dr. Chalfont, had had his practice twice broken up by legal actions which Bacon had brought against him—once in Wilmington, Del., and again in St. Louis. He had now removed to San Francisco, and Bacon had already threatened a new action. On a Sunday morning Chalfont sought his opponent at his hotel, met him at the door of his chamber, and shot him dead. For some time the murder was a mysterious one, but Chalfont, a few days later, surrendered, declaring that the act of shooting was quite unpremeditated, and was the result of a sudden impulse, induced by irritating and threatening language used by Bacon. The dentists of California, and also of other States, are subscribing to aid Chalfont's defence.

Materia Medica.

CASTORUM.

DR. HAGER thinks the time has come when castorum might be omitted from the German pharmacopæia. As an animal secretion it is unworthy of use, and its medical value he considers below that of valerian. It has been omitted from the Austrian pharmacopæia.

FALSE ANGUSTURA AND POMEGRANATE ROOT BARKS.

The British Medical Journal gives some particulars of a trial for homicide which has recently taken place at Avallon in France, in consequence of the poisoning of a patient by mistake. M. R., a pharmacien at Avallon, sold to Dr. L., a medical practitioner in the same town, a quantity of false angustura bark instead of pomegranate root. Dr. L., misled by a certain degree of resemblance between the two substances, and believing that he was using pomegranate root, made an infusion of the substance and gave it to a patient, who died in consequence of taking it An action for homicide by imprudence was brought against the

pharmacien and the doctor. The tribunal at Avallon and the Court of Appeal at Paris decided that both were guilty. They refused to admit the plea that Dr. L. might have been misled by the similarity of the two substances, alleging that he ought to have noticed that the infusion which he prepared had not the ordinary appearance of infusion of pomegranate bark, and emitted an unusual odour; and that his suspicion ought to have been excited by the symptoms produced in another patient to whom he had given the same medicine a few days previously. The local tribunal fined M. R. 200f., and Dr. L. 25f. The Court of Appeal added to the fine on the pharmacien a sentence of imprisonment for 15 days, and increased Dr. L.'s punishment to a fine of 200f

THE SAW PALMETTO.

In the American Journal of Pharmacy for April, Dr. J. B. Read, of Savannah, Georgia, United States, describes the medicinal and economic uses of the saw palmetto, Sabal serrulata. These plants form a belt of almost impenetrable scrub for nearly 100 miles on the coast of Florida. The leaves form a durable thatch, and are sold for paper stock. The roots are easily made into scrubbing brushes, and their ashes contain much potash. The drupes ripen in October and November. Their taste is at first very sweet; an acrid pungent sensation then spreads over the fauces, nasal mucous membrane, and larynx, and is followed by a feeling of smoothness, as if the parts had been coated with oil.

If the expressed juice is left for a few days it separates into three layers, "first a yellow volatile oil, next a thicker greyish brown fixed oil, and then a yellowish watery fluid,"

rieher in saccharine matter than cane juice.*

This fluid yields, on evaporation, a rich golden syrup, which neither ferments nor candies. When the drupes are boiled in water the volatile oil fills the atmosphere to a great distance with its pungent vapour, causing dizziness and headache in those in the immediate neighbourhood. The residue of the seeds and husks is greedily eaten by many animals, and fattens them quickly. The peculiar soothing effect on the mueous membrane has been utilised in troublesome eoughs. The fruit is also a remarkable sedative and diuretie. It has been used with benefit in cardiae asthma, phthisis, chronic bronchitis, and dilation of the bronchial tubes. Its action in catarrhal affections is rapid and permanent. A cold in the head may be abated by two or three doses.

While the palmetto drupes are ripe, the earnivorous and omnivorous animals fatten so rapidly that they become unwieldy. Their fat, however, eonsists ehiefly of olein, and

will not render into lard.

Medical Gleanings.

Poverty of the English Language.—This is from the *British Medical Journal*:—The *soirée* of the Pharmaceutieal Society was held at the South Kensington Museum on Wednesday evening. It was very largely attended, and there was a very agreeable *réunion*, which was as usual enlivened by the strains of excellent music. The *locale* offers at the present moment many features of unusual interest.

A PLAGUE OF DOCTORS.—The "Medical Students' Register" for 1879 gives the statistics of registration of medical students throughout the United Kingdom since 1865. In that year a total of 582 students were registered in England, Scotland, and Ireland. In 1878 the total was 1,734. This rate of progress is satisfactory for the professors, but the public may look at it from a double point of view. These 1,734 doctors, when fledged, must live, or at least they will fancy that they see the necessity themselves, and to ensure this condition they will have to import or invent a variety of new diseases. Fortunately for them, the delicate construction of the human body, the suppleness of the Greek language, and, best of all, the nervous phantasies of would-be patients are capable of indefinite extension.

Two medical students in London have, during the past few days, committed suicide through nervous excitement consequent upon excessive study in preparing for examinations. One of the deceased was a son of the well-known Birmingham surgeon, Mr. Oliver Pemberton, and was a St. Bartholomew's student; the other was Mr. Attwood, a St. Thomas's student. Much sympathy has been drawn forth for the friends of the deceased by these melancholy occurrences.—Medical Press.

An Anti-asthmatic Powder.—The *Practicien* (a new and interesting French medical weekly) gives the following formula, which has been adopted with much success by Dr. de Crevoisier, of Briey. Take equal weights of stramonium, sage, belladonna, and digitalis; erush to about the coarseness of saw-dust, damp a little, and mix in as much nitre as of either of the other substances. Burn a little, on a plate, cover with a paper cone open at the top, and let the sufferer inhale the smoke. If the smoke is too abundant, damp the mixture with a little water.

* *

Hoarseness—Borax and Nitrate of Potassium.—These two salts have been employed with advantage in eases of hoarseness and aphonia occurring suddenly from the action of cold. The remedy is recommended to singers and orators whose voices suddenly become lost, but which by these means can be recovered almost instantly. A little piece of borax, the size of a pea, is to he slowly dissolved in the mouth ten minutes before singing or speaking. The remedy provokes an abundant secretion of saliva, which moistens the mouth and throat. This local action of the borax should be aided by an equal dose of nitrate of potassium, taken in warm solution before going to bed.—La France Médicale.

Toxic Effects of Linseed Meal.—Dr. J. G. Parsons, in the *British Medical Journal*, describes several instances of peculiar sensitiveness to linseed meal. A man who applied it to his leg had his face next day swollen and red, with inflamed eyes. The same man was similarly affected by earrying a parcel of linseed meal in his basket for a neighbour. In the case of a lady who applied a linseed-meal poultice to her infant, the same symptoms occurred, accompanied with severe inflammation of the mucous membrane of the air passages. Dr. Parsons has met with four or five such cases. He thinks this specific action of linseed upon the mucous surfaces may possibly explain its use in affections of the mucous membranes.

* *

COLLODION IN SEA-SICKNESS.—Dr. Laederieh, a French physician, highly recommends the treatment of sea-sickness with collodion. This had been the means of warding it off from many who were peculiarly pre-disposed to suffer from it, and had suffered much before. The collodion is applied with a brush in three successive layers on the epigastric region (over the stomach) and the neighbouring parts. It acts in such eases in the same way as in those of peritonitis where it is a powerful anti-emetic. The "Algerian Journal of Medicine" reports another way of treating sea-sickness. M. Velaseo advises injections of 0-005 grain and 0-02 grain of morphine, and says he has experienced its good effects on himself and his family.

Danger of Podophyllin.—Mr. E. W. Forster, M.R.C.S (Darlington), in the *British Medical Journal*, describes four eases of injury resulting from doses of podophyllin, the dose taken being named in only one ease, when \(\frac{1}{4} \) grain taken night and morning three times eaused eolicky pains and tenesmus for two days. He mentions two cases in which podophyllin pills were supplied by druggists to pregnant women, griping and misearriage following in both instances. It would be well to remember, adds the writer, that when patients are bothered with their bowels it is not the purgative effects of a medicine that are generally required, but the alterative; so that a half, or may be a quarter, grain of ealomel, or one-sixth of a grain of podophyllin, night and morning, will frequently—indeed, almost invariably—produce more beneficial and lasting results than the larger doses.

^{*} The facts thus described can hardly bear the interpretation given them. A volatile oil which would separate on standing from a fixed oil has, we believe, still to be discovered. The substance in question is evidently of much interest.—Ed. C. & D.

ARSENICAL POISONING FROM WALL-PAPERS, &C.—The following is a copy of the queries issued to the members of the profession by Mr. Malcolm Morris (of 63 Montague Square, W.), hon, secretary to the committee recently appointed by the Medical Society of London to investigate the subject of arsenical poisoning by means of wall-papers, paint, articles of furniture, and wearing apparel:—1. Have you had under your observation, during the last five years, any cases clearly traceable to arsenical poisoning, produced by wall-papers, paint, articles of furniture, or wearing apparel, &c.? 2. Any cases previous to that time? 3. What were the first symptoms that led you to suspect this form of poisoning? 4. State briefly the prominent characteristies of each case? 5. Were there any external symptoms of irritation? 6. How long was it in each case before the patient recovered health and strength? 7. Were any eases fatal? 8. What article contained the poison? What tests were employed to detect its presence? 9. How many cases occurred in meu? How many in women? How many in children?

AN AMATEUR DRAMATIC PERFORMANCE in aid of the London Homocopathie Hospital was given in St. George's Hall, Regent Street, on June 5, by the Thalian Company. The pieces performed were Mr. Albery's "Forgiven," and Mr. Alfred Wigan's "A Model of a Wife." Among the actors Mr. Alan E. Chambre, the official manager of the hospital, especially distinguished himself, and several other performers by unusual amateur ability deservedly won the favour of the audience. More than 90% was netted for the hospital. The following list of patrons of the entertainment will indicate some of the noble families into which the heresy has made its way:—H.R.H. the Princess Mary Adelaide, Duchess of Teck, H.S.H. the Duke of Teck, the Duke and Duchess of Beaufort, the Duke and Duchess of Westminster; Maria, Marchioness of Ailesbury, the Earl and Countess of Crawford and Balcarres, the Earl and Countess of Denbigh, the Earl of Essex, the Earl and Countess of Dunmore, the Earl of Wilton, the Earl of Albemarle, the Earl and Countess Sydney, Lord and Lady Camoys, Lord and Lady Ebury, Lord and Lady Alfred Paget, and General Lord George Paget, K.C.B.

THE TRUSTEES of the Homeopathic Hospital have narrowly missed losing the benefit of Dr. Quin's legacy, and the history of that gentleman's experiments in will-making is a little iustructive. Among his papers two wills were found, but the later one had never been executed; consequently his final intentions failed altogether. His earlier will, which was dated 1859, gave an annuity of 3001. to Lord and Lady Cosmo Russell, or to either survivor, if he or she did not re-marry, and the remainder of his property to the Homeopathic Hospital so long as its fundamental law should be maintained in strict purity. In the event of such a contingency the property was to go to other London charities, The only fundamental law of the hospital not medical. appears to be that its medical officers shall also be members of the British Homeopathic Society. Subsequently he seems to have secred out the legacy to the Russells, and had written in the margin a note stating that he had revoked the clause. But this revocation had not been attested by two witnesses as the law requires, and as the writing was still legible, the Court declared it must stand. Fortunately, however, for the hospital, it turns out that the surviving party has re-married, and has thereby forfeited her claim. Some legacies to servants had also been inserted, as the Court believed, after the signature of the will, and these were therefore disallowed. The moral of the story is not so much that which the President of the Probate Court tried to draw from it, that everyone should engage a lawyer to draw his will, but it merely enforces the simple lesson which will-makers should never forget, that any and every addition to a will must be attested by two witnesses.

To Remove Stains,—Boiling water will remove tea stains and many fruit stains. Pour the water through the stain, and thus prevent it from spreading over the fabric. Ripe tomatoes will remove ink and other stains from white cloth, also from the hands.

Clippings and Pickings.

ARISTOTLE, Davy, Dalton, and Scheele were all druggists.

An American medical certificate opens thus: Name of deceased, Wight; colour, do.

THE difference between a hill and a pill is that the hill is hard to get up and the pill is bard to get down.

A PATENT, applied for but not proceeded with, by Mr. J. Law, covered the use of the sulpho-riciuoleate and sulpho-oleate of soda in dyeing turkey-red.

TO BLEACH LINEN.—A teaspoonful of turpentine boiled with white clothes will aid the whitening process. This is due to the formation of hydroxyl.

STARCH.—Boiled starch is much improved by the addition of a little spermaceti, or a little salt, or both, or a little gum arabic.

THE Western Times states that Mr. Thomas Andrews, of Guildford, despatches young trout to great distances in "tarboys (i.e., medical stone bottles)"!

"Now, Willie, do have a little courage. When I have a powder to take I don't like it any more than you do, but I make up my mind that I will take it, and I do," "And when I have a powder to take," replied Willie, "I make my mind up that I won't take it, and I don't."

NINETY-FIVE THOUSAND pounds of cinehona bark were exported from Ceylon between October 1, 1878, and April 8, 1879. A company, styled the "Hautane Coffee, Cocoa, and Cinchona Company," has been started in the island, with a capital of 50,000 rupees.

"Having Him."—Old Salt: "Too old to manage a boat? I can row, steer, scull, manage a sail——" Old Doctor: "Yes, but an automatou could do all that. I believe a man is only an automaton after all." Old Salt: "Could a tommy ton catch the runatiz?"—Fun.

THE latest quack medicine in the States publishes a splendid testimonial, as follows:—"Dear Sir,—Two months ago my wife could scarcely speak; she has taken two bottles of your 'Life Renewer,' and now she cau't speak at all. Please send me two more bottles; I wouldn't be without it."

Post hoc, propter hoc.—A man in one of our hospitals was suffering from pneumonia. The physician in attendance took the temperature of his body several times daily by a clinical thermometer. When convalescence was assured these experiments were discontinued, but the patient begged that the observations should be reuewed, for, he said, nothing had ever given him so much relief as those little machines.

To be Sold.—The following advertisement appears in a recent number of the *Medicinisch-Chirurgisches Centralblatt*:
—"Through the death of the late proprietor, a good practice (surgery) in a wealthy part of the country is to disposed of, either by sale or lease. The present owner, daughter of the deceased, is young and single, and would not object to marriage with the buyer or tenant, if suitable arrangements were made. Address, &c."

ANCIENT EYE SALVE.—Iu the discoveries made at Uriconium a patent medicine was brought to light, or rather, says Dr. Winter, "The seal of the physician who vended it,"—an eye salve, marked, like Rowland's Macassar, with his name, to prevent "unpriucipled imitation," as follows:—
"TIBerii CLaudii Medici DIALIBAnum AD OMNE VITium Oculorum EX OVO." Translated as "The dialibanum of Tiberius Claudius, the physician, for all complaints of the eyes, to be used with egg."

To Remove Rust from Steel.—Steel which has rusted can be cleaned by brushing with a paste composed of $\frac{1}{2}$ oz. cyanide potassium, $\frac{1}{2}$ oz. Castile soap, 1 oz. whiting, and water sufficient to form a paste. The steel should first be washed with a solution of $\frac{1}{2}$ oz. cyanide potassium in 2 oz. water. To preserve steel from rusting, a good method is to paint it with melted caoutchouc, to which some oil has been added. The caoutchouc must be melted in a close vessel to prevent its burning, and should be frequently stirred. It is also said that dipping the steel in a solution of common soda (about 1 in 4) will preserve it from rusting.

To Soften Leather.—Kerosene will soften boots or shoes which have been hardened by water, and render them as pliable as when new. Kerosene will make tin teakettles as bright as new. Saturate a woollen rag and rub with it. It will also remove stains from clean varnished furniture.

GLYCERINE JELLY .-

Calves foot jelly (Crosse & Blackwell's) . . . 2 parts

Warm and add-

The above makes a perfectly transparent emollient jelly, which keeps good any length of time in stoppered or corked bottles, but evaporates in bottles closed by screw-caps.— Cunadian Pharmaeeutical Journal.

LIME-JUICE CORDIAL.—The following is an excellent recipe:
—Take of glueose, 36 lbs.: cane sugar, 108 lbs.; lime juice, 14 gallons; spring water, 23 gallons; essential oil of orange, ½ fluid oz.; essential oil of numeg, ½ fluid oz.; salicylic acid, 2 oz. Place the glueose and cane sugar in copper pans, with a sufficient quantity of water, and dissolve with the aid of a moderate heat. To the syrup thus prepared the essential oils are added and thoroughly incorporated. The salicylic acid is next iucorporated with the syrup, and the whole combined with the lime-juice and water. Agitate occasionally for 24 hours, and strain through fine muslin. The product should measure 54 gallons, or one hogshead.

Making Pencil-Marks Indelible.—Pencil-marks are indelible, says the *Papier Zeitung*, on paper preserved as follows:—Any ordinary drawing-paper is slightly warmed, and then rapidly and carefully laid on the surface of a bath consisting of a warmed solution of bleached colophonium in alcohol until the entire surface is moistened. It is then dried in a current of hot air. The surface of the paper becomes smooth, but readily takes the impression of a lead-pencil. In order to make the lead-pencil marks indelible, the paper is warmed for a short time on a stove. This method may prove valuable for the preservation of working drawings when a lack of time will not permit the draftsman to finish them in ink.

COD-LIVER-OILY LITERATURE.—Mr. Herbert Spencer was one of the witnesses examined by the English Copyright Commissioners some time ago. He was asked whether he did not think that if any publisher might reproduce his works by paying him (the author) say 10 per cent. royalty, an increased sale consequent on lower prices would not probably yield him a larger return. He said he thought not. The reduction in selling prices so effected would not be more, he calculated, than about 15 per cent., and he said: "I am of opinion that a reduction of the price of one of my books by that amount would have but a small effect upon the sales, the market being so limited. Let me use an illnstration: Take such a commodity as cod-liver oil, which is a very necessary thing for a certain limited class. Suppose it is contended that, out of regard for those to whom it is so necessary, retailers should be compelled to take a smaller profit, and you reduce the price by 15 per cent. The consumption would be very little influenced, because there would be none except those who had it prescribed for them who would be willing to take it, and they must have it. Now, take one of my books, say the 'Principles of Psychology.' Instead of calling it 'caviare to the general,' let ns call it cod-liver oil to the general; I think it probable that if you were to ask ninety-nine people out of a hundred whether they would daily take a spoonful of cod-liver oil or read a chapter of that book, they would prefer the cod-liver oil. And if so, it is quite clear, I think, that no lowering of the price by 3s. ont of 20s. would in any considerable degree increase the number of persons who bought the 'Principles of Psychology.' The class is so limited and so special that there would be no increase of profit of a considerable kind in consequence of an increased number sold."

Q. But are there not many people who would have benefited by cod-liver oil who cannot get it at present because of the price?

A. I think in all those cases in which they would be benefited they get it by hook or by crook when it is prescribed for them.

Trade Rotes.

Mr. HENRY SEYMOUR has succeeded to the business for the last three years carried on by Mr. S. Smith, ehemist and druggist, at 1 Wellington Place, Easton Road, Bristol.



IN THE advertisement of Dennis's Lincolnshire pig powders, in our last, the quotation of 18 per cent. discount was an error. It should have read 10 per cent. The advertisement now appears corrected on page 47.



THE PATENT PLUMBAGO CRUCIBLE COMPANY, of Battersea Works, London, have recently shipped to Colorado a quantity of muffles and scorifiers, for use at the extensive smelting works of Professor Hill.



Mr. G. S. Mumford, of the Newcastle Granary and Steam Mills, Farringdon Road, E.C., whose manufacture of crushed linseed is known to chemists and druggists, will henceforth carry on business in his own name instead of as "Peter Mumford & Son," as it has long been styled.



THE LIEBIG'S EXTRACT OF MEAT COMPANY have declared a dividend of 10 per cent. per annum, and in addition they have presented 6,000 bonus shares from the reserve fund to the shareholders. There are 18,000 shares in the company, so that every owner of three shares will receive one additional share as a free gift.

A GOOD IDEA has occurred to Mr. Crawshaw, of Fann Street, Aldersgate Street, which is, to put up penny packets of insect powder for chemists' sale. We hear that there is great consternation in insect-land at the announcement that the nimble penny is to be commissioned to take the field this snmmer.

The report of the Cheque Bank up to February 28, 1879, shows a steady augmentation of business. The bank does not yet quite pay its working expenses, a loss of 1,932*l*. being shown for the year; but this is better by 1,400*l*. than in the previous year, and by 1,900*l*. than in 1877. The number of cheques sold during the year was 366,883, against 308,996 in the previous year, and 233,618 in 1877.

* *

THE SILICATED CARBON FILTER COMPANY, of Battersea, nnder orders from the Admiralty, snpplied a large number of their pocket filters for the use of the Marines who sailed in the *Jumna* for the Cape on the 6th inst. We are also informed that Messrs. Schweppe & Co. have had their aërated water manufactories in London, Liverpool, and Glasgow fitted throughout with silicated carbon main supply filters.

AMONG THE EXHIBITS for the Sydney Exhibition which have come under our notice, we may mention a large display of perfumery, and especially of his new ozonised perfumery, from the mannfactory of Mr. Rimmel; a fine collection of opium alkaloids, from Messrs. T. & H. Smith, of Edinburgh and London; some novelties and a grand collection of the invincible "Danghter's" marking-ink, from Mr. J. Hickisson and a collection of brushes and various perfumery, from Messrs. John Gosnell & Co.

Mr. Edward Hurley, of Reading, has purchased from Mr. W. Herbert his business at 137 Lewisham High Road.

PETROLINE HAIR CREAM.—It was discovered some time ago, or at least it was asserted, that petroleum had a most remarkable effect in the reproduction of hair in bald places, and many authorities have recommended it as a safe and useful application to the hair. Messrs. Nerwich & Co., of Wynne Road, Brixton, take advantage of its properties in this respect, and prepare, with petroleum as the principal ingredient, a cream which, while retaining the distinctive odour, is by no means disagreeable, and is even refreshing for occasional use. We have had no opportunity of testing its stimulant virtues.

DR. BILLING'S INSTANTANEOUS DISINFECTANT. - This product is securing considerable favour. A letter in the last number of the Homeopathic Review from Dr. George Wyld commends it very highly, and from several other quarters testimony to its efficacy has been given. It is a concentrated solution of several chlorides, and being a clear liquid, of a pale green tint, leaving no stain, odourless, and stated to be harmless. It is capable of application in all conditions, and from one or two trials we have made of it we believe it to be a thoroughly efficient deodoriser.

Obituarn.

BAYLY .- On April 27, 1879, Mr. Henry Bayly, chemist and druggist, Richmond, Surrey. Aged 39 years.

BLUNT.—On' April 21, at 1 Clifton Villas, Battersca, Jane, the beloved wife of R. G. Blunt.

BROOKE. On May 17, Mr. Charles Brooke, F.R.S., aged 74, the author of the well-known "Elements of Natural Philosophy," founded on a work by Dr. Golding Bird. Mr. Brooke was the inventor of the apparatus for obtaining photographic records of magnetical changes, employed for many years at Greenwich and other observatories. He was a frequent, if not voluminous, contributor to scientific literature, and an active member of several scientific societies. For many years he was one of the surgeons of Westminster Hospital, and was a consulting surgeon of that institution at the time of his death.

CARR.—On May 6, 1879, Mr. Bennett Carr, chemist and druggist, Eckington, Derbyshire. Aged 69 years.

EDWARDS.—On May 17, 1879, Mr. Frederick Hezekiah Edwards, chemist and druggist, Lambeth Walk, S.E. Aged 32 years.

Fox, Dr. Tilbury.—On June 7. aged 43, Dr. Tilbury Fox He was the author of "Skin Diseases of Parasitic Origin their Nature and Treatment," published in 1863; "The Classification of Skin Diseases," published in 1864; "Skin Diseases; their Description, Diagnosis, and Treatment," which reached its third edition in 1872; "On Eezema, and incidentally the Influence of Constitutional Conditions in Skin Diseases," published in 1870; "The Atlas of Skin Diseases," published in 1875; and "The Epitome of Skin Diseases," which reached its second edition in 1877. He was joint author with Dr. Farquhar of a scheme, prepared for the India Office, for obtaining a better knowledge of the endemic skin diseases of the East. In 1875, with Dr. Farquhar, he issued a report upon the endemie skin diseases of India. He contributed various papers and clinical lectures on skin diseases to many of the medical papers.

GLADDING.—On May 23, 1879, Mr. William Bennett Gladding, chemist and druggist, Brook Street, E. Aged 51 years.

GRISEBACH.—Dr. August Grisebach, Director of the Botanieal Garden at Göttingen, died recently in that city. He was one of the first modern authorities on the physiology of plants, and was equally distinguished as a traveller,

author, and academical teacher. By his now classical work on "The Relation of Vegetation and Climate" he became in a sense the founder of the distinct science of plant-geography. Dr. Grisebach was born at Hanover in 1814.

Job.—On May 18, 1879, Mr. Ananiah Job, chemist and druggist, Treville Street, Plymouth. Aged 38 years.

Jones.—On May 2, 1879, Mr. Edward Bowen Jones, pharmaceutical chemist, Lammas Street, Carmarthen. Aged 69 years.

PANK.—On May 10, 1879, Mr. William John Pank, pharmaceutical chemist, City Road, N. Aged 50 years.

VALENTIN.—Suddenly on May 1, William George Valentin, aged 49. He was a native of Neuenburg, in the Black Forest. He came to this country about 25 years ago, and studied under Dr. Hofmann, subsequently becoming senior assistant to Dr. Frankland, at South Kensington. He was well known as a teacher, and his text-books have a deservedly high repute. Some of his friends and students at the School of Mines had intended to present him with a testimonial, but we believe the committee will now seek to obtain an increased amount for the benefit of his widow.

WALKINTON.—On May 25, 1879, Mr. William Walkinton, chemist and druggist, Tenby. Aged 79 years.



BANKRUPT (IRELAND).

BARBER, ALEXANDER, Colcraine, Londonderry, surgeon and apothecary. May 16. SEQUESTRATION (SCOTLAND).

ADDINELL, JOHN, Leith, druggist. May 6.

LIQUIDATIONS.

BARRETT, SAMUEL, Frizinghall, chemist. May 24.

CLARKE, THOMAS VINER, Trundley Lane, Deptford, chemical manufacturer. May 30.

CROSSBY, RICHARD SUMMERBY, Loudon Street and Normanton Street, Derby, chemist. May 12.

Dobson, Thomas Osborne, 6 Paradise Street, Liverpool, apothecary. May 7.

DOWNES, DENIS SIDNEY, 55 Kentish Town Road, surgeon. May 8.

ISON, JOHN, New Street. Wellington, grocer, hop merchant, and chemist, May 10.

KITSON, EDWARD JOHN, 51 Broad Street, Worcester, chemist. May 27.

LEECH. WILLIAM, 16 Victoria Road, Hackney Wick, late 336 Marc Street, Hackney, chemist. May 13.

LUND, THOMAS, & FLEMING, JOHN LUND, Lancaster, acrated-water manufacturers. May 12.

MAXWELL, PETER, Boston, physician and surgeon. May 16.

RICHARDSON, JOHN, 14 Lancaster Street, Hyde Park, and 88 Pimlico Road, Chelsea, baker, trading as Field & Co., at 267 High Holborn, druggist, late 53 Brompton Road, and 58 Rawlings Street, Chelsea, and 21 aud 17 Charing Cross, baker. May 26.

STEAD, SAMUEL, Meanwood Street, Leeds, druggist. May 30.

PARTNERSHIPS DISSOLVED.

Brown, Samuel Shaw, & Co., 22 John Street, Netherfield Road North, Liverpool, lint manufacturers. May 22. Debts by Roose & Price, 26 North John Street, Liverpool, accountants.

BURNETT, T., & Son, Bill Quay, Dunston, and Newcastle, chemical manufacturers. January 1, as regards H. J. A. Burnett. Debts by the remaining partners.

CORBETT & Co., Plaskynaston Chemical Works, near Ruabon, Denbigh, and late Bromley Street and Water Street, Manchester, trading as Athow & Black, chemical manufacturers. March 3. Debts by E. Corbett, jun., and S. J. W. O. Black.

HINKS, THOMAS, & SONS, Little Bromwich, and Little Green Lanes, Smallheath, colour-makers and manufacturing chemists. May 22, as regards J. Hinks. Debts by R., G. & V. Hinks.

HORNBY, FAIRBURN & Co., Don Vitriol Works, Attercliffe, near Sheffield, manufacturing chemists. March 1, as regards E. P. Hornby. Debts by J. Pairburn and E. J. Oliver.

LORIMER & FLETCHER, Holloway Road, Middlesex, manufacturing

chemists. May 30. Dobts by F. W. Fletcher. SMITH, T. & W. H., 17 Walter Street, Liverpool, lard refiners, drysalters, and manufacturing chemists. May 13. Debts by T. Smith.



[The following list has been compiled expressly for The Chemist and Druggist by G. F. Redfern, Patent Agent, successor to L. de Fontaine-moreau & Co., 4 South Street, Finsbury, London; and at Paris and Brussels.]

Applications for Letters Patent :-

- Ammonia.—No. 1481.—W. Müller, of Antwerp, Belgium, merchant, and E. Geisenberger, of Brussels, Belgium, civil engineer. Improvements in means and apparatus for the manufacture of ammonia. Dated April 16, 1879.
- Ammonia.—No. 1592.—W. Müller, of Antwerp. Belgium, and E. Geisenberger, of Brussels, Belgium, civil engineer. Improvements in means and apparatus for the manufacture of ammonia from the nitrogen of atmospheric air and hydrogen. Dated April 22, 1879.
- Bottle-stoppers.—No. 1286.—J. Wilson.—A communication from R. H., Browne, of Rouen, France. Improvements in stoppers for bottles cans, jars, and such-like vessels. Dated April 1, 1879.
- Bottle-stoppers.—No. 1605.—H. Codd, of 58 King William Street London, Improvements in stopping the mouths of jars and bottles. Dated April 23, 1879.
- Coating Pills.—No. 1434.—D. Cartner, of Dalston, London, chemist. An improved machine for coating or covering pills. Dated April 10, 1879.
- Filters.—No. 1582.—J. Grant, of Boston, Mass., United States, engineer. Improvements in filters. Dated April 22, 1879.
- Lathes for Dental Uses.—No. 1521.—G. H. Joues, of 57 Great Russell Street, Bloomsbury, London. An improvement in lathes for dental and other uses. Dated April 18, 1879.
- Oxidising the Sulphides of Sodium and Potassium.—No. 1530.—
 A communication from P. Pauli, of Chemische Fabrik, Rheinau,
 Germany. An improved process for oxidising the sulphides of
 sodium and potassium in alkaline solutions. Dated April 18,
 1879.
- Securing Bottle Stoppers.—No. 1412.—J. Shanks, of Towsend Street,
 Dublin, Ireland. Improved fastenings for securing the corks or
 stoppers of bottles. Dated April 9, 1879.
- Separating Sulphur from Alkaline Solutions.—No. 1396—A communication from P. Pauli, of Chemische Fabrik, Rheinan, Germauy. An improved process for separating sulphur or its combinations from alkaline solutions. Dated April 2, 1879.
- Sulpho-eyanides and Ferro-eyanides.—No. 1359.—H. E. Newton; a communication from J. Teberniae and U. Gunzburg, both of Paris. Improvements in the process of aud apparatus for manufacturing sulpho-cyanides and ferro-cyanides. Dated April 5 1879.
- Advertising.—No. 1988.—H. A. Reinhold, of Woolwich, Kent, mechanical engineer. An improved method of an apparatus for exhibiting advertisements, show-cards, and the like. Dated May 19, 1879.
- Bottles.—No. 1960.—S. Canning, of 7 Great Winchester Street Buildings, London. Au improved manufacture of glass bottles and apparatus or moulds employed therefor. Dated May 16, 1879.
- Bottles.—No. 2169.—M. Lumb, of Penrith, Cumberland. Improvements in bottles. Dated May 31, 1879.
- Bottles and Stoppers.—No. 1991.—T. Wood, of Portobello, North Britain. An improvement in the construction of the mouths of bottles for bolding aërated waters and other liquids, in the stoppers thereof, and in the retaining or holding of such stoppers to confine the said liquids. Dated May 20, 1879.
- Bottle-stoppers.—No. 1718.—W. Geeves, of Cheltenham, Gloucestershire, Improvements in apparatus for stopping bottles, Dated April 30, 1879.
- Bottle and Stoppers.—No. 1788.—C. F. Wood, of Sheffield, Yorkshire. Improvements in the construction of hottles and jars to facilitate the stoppering thereof, and in stoppers for bottles and jars, and in apparatus for filling the said bottles. Dated May 6, 1879.
- Bottle-stoppers.—No. 1861.—H. Barrett, of Hampton, Middlesex. Improvements in stoppering bottles for containing aërated or gascous liquids, and tools or appliances therefor. Dated May 10. 1879.
- Bottle-stoppers.—No. 1895.—H. Barrett, of Hampton, Middlesex, and J. Bailey, manager of the Indiarubber, Guttapercha, and Telegraph Works Company (Limited), of Silvertown, Essex. Improvements in the manufacture of stoppers for bottles for containing aërated or gaseous liquids. Dated May 13, 1879.
- Bottle-stoppers.—No. 1966.—W. Battersby, of Ardwick, near Manchester. Improvements in stoppering bottles to contain a crated or fermented liquids. Dated May 16, 1879.

- Colouring Matters.—No. 1864.—R. Metholda, chemist, of Atlas Works, Hackney Wick, London. The production of colouring matters from the sulphonic acids of the phenols, and the diazosulphonic acids of the amines. Dated May 10, 1879.
- Dephosphorisation of Iron.—No. 1698.—H. A. Bonneville.—A communication from E. André, of Ehrenbreitstein, Germany, engineer. A new or improved process of dephosphorisation of iron. Dated April 30, 1879.
- Electra Compound.—No. 2016.—T. Sanders and L. Danckwerth, both of St. Petersburg, Russia. Improvements in the manufacture of a new compound or substance to be called "electra compound." Dated May 21, 1879.
- Extracting Fatty Matters from Substances.—No. 1673.—J. J. Sacks, of Barrow-in-Furness, Lancashire. Improvements in the extraction of fatty matters from substances or materials containing such fatty, oily, or greasy matters. Dated April 29, 1879.
- Metallie Sulphides.—No. 2006.—J. B. Spence, of Lombard Street, London, merchant. Improvements in the treatment of metallic sulphides. Dated May 20, 1879.
- Purification of Cod-liver Oil.—No. 1970.—J. Fordred, of Tottenbam, Middlesex, technical chemist. Improvements in the treatment and purification of cod-liver oil. Dated May 16, 1879.
- Treating Metallic Sulphides.—No. 1855.—J. B. Spence, of Lombard Street, Loudon, merchant. Improvements in the treatment of metallic sulphides and the products derivable therefrom. Dated May 9, 1879.

Letters Patent have been issued for the following :-

- Alkalies.—No. 4188.—E. W. Parnell, of Liverpool, Lancashire, manufacturing chemist. Improvements in the manufacture of alkalies.

 Dated October 21, 1878.
- Ammonia.—No. 4353.—J. Imray; a communication from H. J. E. Hennebutte, of Auglet, near Bayonuc, France, and C. J. F. R. de J. Mesnavd, of Biarritz, France. Improvement in the treatment of ammoniacal liquor for the separation of ammonia compounds therefrom. Dated October 29, 1878.
- Bottle-stoppers.—No. 218.—C. F. Wood, of 10 Langdon Street, Sheffield, and J. Wilkinson, of Swinton, Yorkshire. Improvements in the stoppering of bottles, and in apparatus for adapting bottles theroto. Dated January 20, 1879.
- Bottles and Stoppers.—No. 4105.—G. Evenden, of Portslade, grocer, and H. W. Stiles, of Brighton, commercial traveller. Improvements in bottles and stoppers. Dated October 16, 1878.
- Bottle-stoppers.—No. 4194.—B. Hagh, of Glengall Road, Poplar, London. Improvements in stoppers for hottles, and in means for filling hottles provided with such description of stoppers with acrated and other liquids. Dated October 21, 1878.
- Colouring Matters.—No. 4489.—J. C. Mewburn.—A communication from A. F. Poirrier, manufacturer, D. A. Rosenstiehl, chemist, and Z. Roussin, chemist, all of Paris, France. The production of new colouring matters from phtalamine. Dated November 6, 1878.
- Colouring Matters.—No. 4491.—J. C. Mewburn.—A communication from Z. Roussin, chemist, and A. F. Poirrier, manufacturer, both of Paris, France. The production of new colouring matters by the reaction of the diazoic derivatives of toluidines and xylidines upon amines, amides, and phenols. Dated November 6, 1878.
- Colouring Matters.—No. 4490.—J. C. Mewburn.—A communication from Z. Roussin, chemist, and A. F. Poirrier, manufacturer, both of Paris, France. The production of new colouring matters, by the reaction of the diazoic derivatives of uitraniline, or other diazoic derivatives, upon amines, amides, and phenols. Dated November 6, 1878.
- Sulphate of Alumina.—No. 173.—F. Laur, of Paris, France. Improvements in the manufacture of sulphate of alumina. Dated January 15, 1879.
- Sulphuric Acid.—No. 705.—W. G. Strype, of Wicklow, Ireland. Improvements in or applicable to apparatus for the manufacture of sulphuric acid and for the purpose of regulating the draught in such apparatus. Dated February 21, 1879.
- Anthracene.—No. 4517.—J. Hardman, of Milton, Staffordshire, manufacturing chemist, and G. Wisehin, of Milton, Staffordshire, chemist. Improvements in the production of anthracene. Dated November 7, 1878.
- Box for Holding Dentifrice Powders, &c.—No. 4768.—J. H. Johnson:—A communication from W. H. Hall, of New York, United States. Improvements in boxes for holding dentifrice, rouge, burnishing or cleaning powders, or other substances or liquids. Dated November 23, 1878.
- Disinfectants, &c.—No. 1081.—R. V. Tuson, of the Royal Veterinary College, Great College Street, Camden Towu, London, Professor of Chemistry. Improvements in the preparation of materials to be used as disinfectants, deodorisers, and antiseptics, as well as for the destruction of parasites infesting man and the lower animals, and similar purposes. Dated March 19, 1879.

- Phosphates and Manures.—No. 4452.—S. G. Thomas, of 3 Queen's Road Villas, Queen's Road, Battersea, London. Improvements in the manufacture of phosphates and manures. Dated November 4, 1878.
- Phosphates and Manures.—No. 4558.—S. G. Thomas, of 3 Oncen's Road Villas, Queen's Road, Battersea, London. Improvements in the mannfacture of manures and phosphates. Dated November 9, 1878.
- Salts of Soda.-No. 4737.-A. Cahen.-A communication from le Comté Charles de Monthlanc and Lucien Gaulard, Paris. Improvements in the manufacture of salts of soda. Dated November 21, 1878.
- Treating "Red Oxide" of Iron.-No. 354.-A. Watt, of 20 Christelinrch Terrace, Battersea Park Road, London, chemist. Improvements in treating "red oxide" of iron for the purpose of obtaining therefrom certain useful products. Dated January 28,
- Treating Toothache, &e.-No. 4924.-W. Handysides, of Newcastleupon-Tyne. A medical preparation applicable to the treatment of ticdonloureux and toothache, called "Handyside's electric nervine snuff." Dated December 3, 1878.

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- 3525. S. Hallsworth. Treating waste waters. 2d.
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- 453. A. M. Clarke. Monl's and cores for use in casting steel. 2d. 2840. P. Speuce and T. Illingworth. Manufacture of sulphate of ammonia.
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- 4131. C. Norrington. Apparatus employed in the mannfacture of sulphuric acid. 6d.
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- 4228. W. Spence. Colouring matters. 4d.
- 4353, J. Imray. Treating ammoniacal liquor for the separation of ammonia liquor for the separation of ammonia compounds therefrom. 4d.
- 5255. W. Morgan Brown. Phosphorescent powders, &c. 6d.

156. W. R. Lake. Dental plates. 6d.

TO SMOOTH FLAT-IRONS.—Beeswax and salt will make flat-irons as clean and smooth as glass. Tie a lump of wax in a rag, and keep it for that purpose. When the irons are hot, rub them with the wax-rag, then scour with a paper or rag sprinkled with salt.

ABSTRACTS OF SPECIFICATIONS.

FOR permission to print the following we are indebted to the courtesy of the Engineer:-

- 2550. Tooth-picks, Device for Removing Food and Secretions from BETWEEN THE TEETH, T. Reid .- Dated June 25, 1878 .- A communication.)—(Not proceeded with.) 2d.
- A curved rod earries a spool of floss silk, which is distended thereon, and the rod is furnished with a handle, by which the silk thread can be drawn between the teeth for removing any food or secretions which may have become lodged therein.
- 2750. Volatile Liquids, Barrels for Holding, W. R. Lake .- Dated July 9, 1878.—(A communication.) 6d.

This consists in a wood-incased metal barrel, the cylinder having inward grooves formed by the ontward heads, in combination with the metal heads having their concave sides ontward and their edges fitted into the grooves and sealed.

- 3157. Corns, Appliance for, &c., M. Wilson.—Dated August 9, 1878. 6d. This consists of an elastic band or handage, on the top of which is a hole or cavity, and over this eavity is placed a cap, thus forming a receptacle.
- 3028. Decayed Teeth, Compound for Filling, &c., T. Fletcher .-Dated July 30, 1878. 2d.

This consists in the use of phosphate or pyrophosphate of alumina. or magnesia, or pyrophosphate of lime, separately or together in a compound.

3029. Paper Bag for Druggists' Powders, &c., A. M. Clark .- Dated July 31, 1878.—(A communication.) 6d.

The hag is formed from an ohlong rectangular blank. A crosswise slit is cut in each side of the hlank at a distance of about one-third the width of the blank. The end of the blank which is farthest from the slits is then notched at each side, thus leaving a narrow central projecting end piece, which serves as a flap to close the lower end of the bag. The side portions, included between the slits and notched ends, are pasted, folded inward, lapped, and pressed together. The end projection is next folded and pasted down on the lower end of the tube this formed.

3352. Lozenges, J. Wilson, jun. - Dated August 24, 1878. - (Not proceeded with), 2d.

The lozenges are cut out into different forms which fit into each other, and hear a part of a map or picture impressed or painted thereon, so as to form a puzzle map.

2897. Sugar, Meat. &e., PRESERVATION OF, C. Perrot.—Dated July 20 1878. 4d.

To preserve sweet matter, a product composed of the following materials is added to about 300 kilogrammes or litres of the saccharine matters to be preserved: - Cream of tartar, 40 grammes; citric acid, 30; alum, 20; tannin, 10; salicylic acid, 13. For wine the product consists of :- Cream of tartar, 15 grammes; tartaric acid, 10; tannin, 5; salicylic acid, 25, added to about 300 litres of wine. For alimentary provisions :- Ordinary salt, 30 grammes; saltpetre or nitre, 17; powdered sugar, 15; salicylic acid, 25, is added to 500 kilogrammes of the matters to be preserved. For the preservation of dry vegetables, cereals, fodder, or grain, the product consists of :-Wood ashes, 50 grammes; snlphnr, 25; tannin, 10; tartaric acid, 10; salicylic acid, 25, to ahout 500 kilogrammes of the matters to be treated.

2979. Albuminous Biscuits, J. Taylor.—Dated July 26, 1878. 2d.

The biscnits are composed of the liquor in which the best joints of beef are stewed for about seven hours, then mixed with the hest wheaten flour, made np, and afterwards haked.

3469. Soeks for Boots, &c., T. J. Smith .- Dated September 2, 1878. (A communication.) 6d.

This consists in interposing in the thickness of the sock a layer of paper, cloth, or linen, on which mustard or other preparation capable of promoting circulation of the blood has been spread or pasted.

3341. Ammonia, Manufacture of, J. P. Rickman.—Dated August 24, 1878. 6d.

This consists in the manufacture of ammonia by blowing air and steam through heated oxidisable matter contained in retorts.

3713. Galvanie Batteries, J. D. Adams.—Dated September 19, 1878,—

(A communication.) 6d.

Chloride of lime is used as the depolarising agent; the zine pole is plunged into a solution of common salt and water, the earbon pole is surrounded with chloride of lime contained in a porons jar, and is formed o a stick of carbon with several turns of copper wire soldered upon the upper part, which is first saturated with paraffin to prevent the ascension of liquid up to the metal. The other end of the wire is soldered to the zine pole of the next element. The zinc pole is formed of a thin sheet rolled around the jar and having a strip extending upwards for the copper wire of the next element. The hattery is enclosed in a wooden box hermetically sealed, each element being in a separate square cell.

XCHANGE



TERMS.—Announcements are inserted in this column at the rate of one halfpenny per word, on condition that name and address are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must he paid. A number will then be attached to the advertisement by the Publisher of The Chemist and Druggist, and all correspondence relating to it must be addressed to the "Publisher of The Chemist and Druggist, Colonial Buildings, Cannon Street, London, E.C.," the envelope to he endorsed also with the number. The Publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will cease.

Deposit of Money.—In order to ensure safety we offer the following system:—The purchaser of anything advertised in the Exchange Column may remit the amount to us. We shall acknowledge receipt to hoth parties by post-cards, and shall only pay it away on the advice of the remitter. Whether returned to him or paid to the seller, we shall charge a commission of 2½ per cent. on any money thus passing through our hands, and not less than 6d. on any single transaction. This arrangement should entirely prevent any cause of complaint or dissatisfaction arising out of this section of THE CHEMIST AND DRUGGIST.

FOR DISPOSAL.

Child's canl; offers wanted. 25/13.

Window jars, specie jars, and vases. 25/16.

Handsome specie jar, gold labellel "Honey," good as new, price 10s. 6d. 24/16.

- Over 60s, worth good selling patents; cash offers. 19/16.
- One gross Grosvenor's capcine plasters; 51s. delivered, 8/14A.
- Twelve bottles genuine Carlsbad salts, fresh; 20s. 8/14B.
- Six 2-gallon pear-shape carboys, five cut stoppers, one plain. What offers, all or part? 39/14.
- Mineral water bottles, sodas and Iemons, large, 13s. gross, split ditto, 10s. 6d. Barnsbury, Glass Co., 5 Little Britain, E.C.
- Essence lemon, &c., advertised last month, still on offer; bargains. B., 11 Bridge Street, Goole.
- 15 doz. large teats, 11s.; 24 doz. small teats (Mather's), 9s.; carriage paid. Apply to Rob. Chalmers, Druggist, Greenock.
- Excellent microscope in mahogany box, three powers; only 10s. 6d. Higginson, Newferry, Birkenhead.
- Half-gallon tincture press on feet, fig. 2, page 126, Maw's Catalogne; price 12s. 6 l. A. Deck, Cambridge.
- Nine dozen 2-oz. and 23-oz. covered pots, worth 18s., for 9s.; a gallon tincture press, cost 35s., for 21s. Connor, Chemist, Winchester,
- Three sets mahogany drawers, shelves, bottles, stock bottles, cheap; particulars sent free. 19/12.
- Full-sized shower-bath, with force-pump complete, nearly new, 30s.; lot window carboys, cheap. Floyd, Bury St. Edmunds.
- Cheap.—Muter's "Chemistry," Smith's "Pharmacentical Gnide," student's microscope, cost 51. 5s., price 31. 3s. 7/14.
- Latest edition of Bentley and Ralwood's "Materia Medica." Also Attfield's "Chemistry." Both in good condition. C. & D., 61 Grosvenor Par's Camberwell, S. T.

- Pine's Devon oils, 2s.; delivered at 16s. dozen; four dozen. Thompson, Hanover Street, Liverpool.
- Quantity of second-hand druggists' fittings, including drawers, bottles, jars, &c., in good condition. Smith, Chemist, Clay Cross.
- $3\frac{1}{2}$ lbs. Mitcham ol. lavand., 1872, 1873, 1874, for sale, warranted genuine. What offers? Singleton & Rigg, Chemists, Preston.
- ³ 1b ol. lavand. opt. Mitcham, untouched; 50s. Fresson, Chemist, 61 New Road, Sonthampton.
- Quantity of fine wax, fair colour, price 1s. 1d. per lb.; sample free. Herbert Kemp, High Street, Horncastle.
- The entire fixtures, sbow-cases, and ntensils of three chemists' shops, price 45*l.*, 60*l.*, 75*l.* Lloyd Rayner, 333 Kingsland Road, London.
- Southall's materia medica cabinet, good condition; cheap, 18s. E. Wynter, Seaford, Sussex.
- Fifty gross ginger-beer corks, sample for one stamp; Scott's Arabian cigarettes, 1s. and 2s. sizes. 34/15.
- Sixty 6d. packets Crawshaw's dyes, 12s. 6d.; 24 3d. size, 2s. 6d.; 24 1d. size, 9d. Longley, North Street, Leeds.
- Thomson's "Dispensatory," Fergusson's "Practical Surgery," Homoeopathic Pharmacoposia; offers. 19/16C.
- For Immediate Disposal.—The bottles, fixtures, cases, &c., &c., of a chemist's shop. Apply to M. E. Foster, 50 Bishopsgate Within, E.C.
- Minor students' set of chemical apparatus, reagents, &c., for home preparation for the Minor; a bargain. List and price from J.T.C. Williams, Dolgelly, North Wales.
- Dows, Clark & Co.'s iced-cream drink machine, six taps, copper cylinder, extra fittings, all in first-rate condition; a great bargain. Read, 2 Market Terrace, Upper Holloway.
- Sale or exchange, 8 or 10 vols. Braithwaite's "Retrospect of Medicine"; invaluable to a chemist if prescribing, or one thinking of emigrating, 23/14.
- What offers for Quain's "Anatomy," eighth edition, new; Pirrie's "Surgery," third edition, new? Beverley, Chemist, Fife-Keith.
- Quantity of good army bisenits, make capital dog hisenits and sell well as such, price 10s. per cwt.; sample free. Herhert Kemp, High Street, Horncastle.
- Nearly new, J. Hughes-Bennett's lectures on "The Principles and Practice of Medicine"; Ss., or offers. Sturton & Sons, Peterborough.
- Guttapercha sticks for tooth-stopping; a few gross 5s. 6d. cash with order, stamped envelope for sample. Lockwood, Chemist, Sheffield.
- Insect powder, fresh ground from flowers; about 300 lbs., 1s. 5d. lb.; eash with order, two stamps for sample; what offer for the lot? Lockwood, Chemist, Sheffield.
- The "Green Book," by Culverwell, on Impuissance, Syphilis, &c., coloured plates, scarce, 5s. 6d.; excellent opera glass, 7s. 6d.; telescope, 3s. 6d.; each half-cost. "Medicus," Newferry, Birkenhead.
- About 200 glas; cases, new and second-hand, from 1s. 3d. to 20t. each; about a dozen sets of ointment jars, in various colours, job. R. Tomlinson, 15 St. Paul's Square, Birmingham.

- Urgent.—Stock, fixtures, bottles, and ntensils, for 501. cash; shop and house (rental low) can be let, so fixtures, &c., need not be removed; rare and exceptional offer. 39/15.
- 30 lbs. gold hronze, three shades, 1-oz. packets. Offers wanted. Sample packet, 10 stamps. Owen, Chemist, 153 Great King Street, Birmingham.
- A No. 1 6-syphon bottling-machine for sale, only been used a few times, suitable for soda-water, sauce, &c.; price 50s., cost five guineas. Fardon, Chemist, Maidstone.
- Two gross pound jujnbe tins, new, flat, 46s.; 12 gross 3ii. white spouted homoeopathic vials, 3s. 6d. per gross; 7 gross 3ii green homoeopathic vials, 3s. 6d. per gross. 3/17.
- 5 cwt. and 10 cwt. platform weighing machine; good iron book safe, Chuhh's locks; ½ tou stearine; ½ ton zinc white paint. H., 196 Union Street, Oldham.
- Preliminary Examination.—Set of books, including Wills' "Postal System," cheap; owner passed first time. What offers? "Junior," 89 Heywood Street, Moss Side, Manchester.
- Y.G.C. glass percolator, graduated to 1 gallon, 25s.; two 24 5-grain pill machines, in good working order, 10s. 6d. each, Reasonable offers or exchanges accepted by W. L. Harvey, Margate.
- "Chemistry, as applied to the Arts and Manufactures," 8 vols., cost 80s., price 60s., new; a still, water-bath, and evaporating dish combined, with gas-stove, 15s. J. Tully, Tunbridge Wells.
- Materia medica cabinet, 200 specimens, 10s. 6d.; 50 Minor examination questions, 2s.; 30 prescriptions given to dispense at the Minor, 2s. "Chemist," care of Mr. J. Edwards, Petham, Canterbury.
- Will positively sell highest bidder.—Pharmaceutical Journal, 1871, 1872, 1873, complete; †-plate camera, lens and stand, perfect order, 35s.; 9 by 7 bellows camera and bath, 11. Bond, Tiverton.
- A complete set of the *Pharmaceutical Journal*, from the 'commencement, 37 vols., the whole uniformly bound in half calf, in good condition; any reasonable offer will be accepted. Address, M.P. S., 13 Bridge Street, Evesham.
- Pharmaceutical Journal from commencement of publication to present date: first series, 18 vols., bound in crimson cloth boards, seven vols. second series in scarlet cloth hoards, the rest nubound. No reasonable offer refused. Thomas Edge, 54 Shaw Street, Liverpool.
- Mather's improved paint and colonr mill, in perfect condition and nearly new, cost 31, 3s. What offers in cash, good patents, or any saleable article? Forty paraffin tubs; offers wanted. Willington, Chemist, Oakham.
- A Bargain.—Nine volumes of the *Pharmaceutical Journal*, from the commencement of the enlargement of the journal mutil the present time, in good condition, unbound, and every number correct. Apply, P. C., care of Mr. Harold, Chemist, Green's End, Woolwich.
- Forty-gallon cistern, brass tap, nearly new, 14s.; case Turkey sponges; flat counter-cases, cheap; shellac, &c., ground for making polish, 3d. lb. (stamp for sample); frangipanni and css. bonquet, double concentrated in Bertrand Frères' original bottles. J. W. Adams, 54 Oxford Street, Salford.

- Southall & Dymond's materia medica cahinet (1867), 10s. 6d.; Attfield's "Chemistry," last edition, equal to new, 10s. 6d.; Lescher's "Elements of Pharmacy," quite new, 5s.; Cooke's "Botany," 6d.; Judd's "Decimals and Metric System," 6d.; Lindley's "School Botany," new, 4s. Young, Chemist, Cheddar, Somerset.
- A soda-water machine to make 1,000 dozen per day, with gasworks, corking rack, dial, aud water ganges; 21-horse power horizontal stcam engine, with 3-horse power vertical

boiler, with all mountings, second hand, as good as new. Particulars of N. G. Wilcocks,

Dentist's vulcauiser that will bear any amount of pressure, made with 4-iuch wrought copper, with copper lid, so that bursting into fragments is impossible; thermometer, two gun-metal flasks, and clamps, 3l. 10s. complete. Richard Cockcroft, Dentist, Mytholmroyd. Reason for parting with it, have others at work.

" P.," . P.," with additions, 1874; Fowne's "Chemistry," 9th edition; Lescher's "Elements," 4th edition; Pereira's "Selecta;" 1s. 6d. "London Latin Grammar;" Shakespeare," complete, cost 1s. 6d.; 13 Nos. Cassell's "Technical Educator," cost 8s. 5d. What offers for any of the above; all equal to new. J. Jupp, Tandridge, Godstone Station.

Fifty questions asked of a successful studeut at the last Minor, 2s.; 30 prescriptions (catch and difficult) given to dispense at Minor during past twelve months, 2s.; fresh botanical specimens of medicinal and other indigenous plants, including aconite, helladonna, conium, &c., 5s. per set (carriage paid). Saunders, A.P.S., 79 Gaisford

donna, conium, &c., as. per set (carriage paid). Saunders, A.P.S., 79 Gaisford Street, N.W.

Splendid large highly-finished hinocular microscope; it stands, when closed, 15 inches high, the case being 17½ inches high; it has mecbanical stage, with concentric movement, ½-inch triplet, best English ½-inch and 1-inch objectives, with A and B eye-pieces. It was made last September for a medical student, and is as good as new; owing to his father's death he is obliged to part with the instrument. Further particulars of Kemp, 242 Stretford Road, Manchester.

Brass scales, agate bearings, 922 Maw's, mahogany slab, weights brass, 11. down; mahogany desk, with glass case, Maw's fig. 13; cigar-case, Maw's 53; also one 4-hole, 19 inch long, upright plateglass case, 2 feet 3 inches by 2 feet 5 inches deep; uest 16 drawers, mahogany, 3 feet hy 2 feet; 6 confectioners' glasses, 14 by 8; dispensing scale, Maw's fig. 8; paraffin stove, 3 burners—all the above are in first-class condition; also Smedley's ascending douche. S. Smith, New Swindon. Nests drawers, newly gold-labelled store and other bottles and jars, all sizes, sbow-bottles, specie iars, desks, counter cases, pill ma-

ats drawers, newly gold-labelled store and other bottles and jars, all sizes, sbow-bottles, specie jars, desks, counter cases, pill machines; handsome dispensing screen, 5 feet high, 5 feet 9 long; large handsome lamp and scroll iron, mortars, shelving, cupboards, &c.; handsome cigar counter-case, 12 divisious gold-labelled, others not labelled; tohacco jars; sheet of plate-glass, in mahogauy frame, 5 feet 10½ high, 4 feet 10½ wide; 2 mahogany doors, glazed with emhossed glass; scales, mahogany show-stands, medical hooks, &c., all cheap. Lists sent. 846 Old Kent Road.

Kent Road.

Kent Road.

A quantity of new blue ointment jars, 6 lbs., 4 lbs., 3 lbs., 1 lb., with gold labels, any names, 25 per cent. off Maw's list; fancy jars, as figs. A and D, gold covers, 6s. 6d., elahorately labelled; ditto, ditto, opaque blue, gold covers, labelled, 11 in. high, 7s. each, worth 13s.; a 4-ft. plate-glass countercase, fig. 41, 4t.; a 6-ft. ditto ditto, as 104, 6t. 10s.; a 5-ft. 3-iu. ditto ditto, as fig. 41, 5t.; a 4-ft., as fig. 95, 5t.; a 3-ft. 6-in., as fig. 105, 6t.; a 6-ft., as fig. 107, 70s.; a 5-ft. as fig. 105, 6t.; a 6-ft., as fig. 105, 7t.; toothbrush-cases, fig. 52, 30s.; desk and case, fig. 39, 45s.; fig. 21, 65s.; a number of small upright counter-cases, very cheap; the eutire fittings of a modern chemist's shop, 70t. E. Natali, 207 Old Street, almost opposite Great Eastern Street.

- Three very elaborate dispensing-screens, glass ree very elaborate dispensing-screens, glass case at each end, with silvered plate-glass centre, with marble slab in front, tablets on top "Dispensing Department," silvered plate-glass to back of cases, and shifting-shelves, 3 shelves at hack for dispeusing-hottles, 7 ft. loug, 6 ft. long, 5 ft. 6 in. long, 8 l. 10s. each, hargains; a very handsome dispensing-screen, as fig. 165, 8 ft. long, plate-glass doors, silvered plate-glass back, shifting shelves, with tablet on top, 91.; 6 ft. do. do., as 164 Maw's list, 71. 10s. E. Natali, 207 Old Street, almost opposite Great Eastern Street, E.C. Eastern Street, E.C.
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 A super facia to increase height of shop front, sketch and particulars on application, 16 feet long, with sheet lead roofing, painted in chocolate, with gold, price 35s.; green opaque powder puff jar, with gilt glass cover, labelled in gold, about 14 inches, price 14s, packed; homeopathic case with drawer, in mahogany, price 15s.; 1 dozen of Southall's emulsion of cod liver oil with hypophosphate of liver refull?s price 15s. or southairs emission or con over on with hypophosphate of lime, retail 2s., price 15s. packed; photographic apparatus, camera alone cost 6l. 10s. List on application, owner going abroad, price 5l. 10s. packed; whole lot cost 10l. Ellis, Chemist, Southsea.
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- Paul on "Piles," coloured plates, 2s.; Nicholson's "Manual Zoology," 2 vols., (12s, 6d.) 7s.; Wakefield's "Botany," 173 engraved figures, 2s. 6d.; Lees' "Botany," 186 engraved figures, 2s. 6d.; Lees' "Botany," 186 engraved figures, 3s.; Liehig's "Animal Chemistry," 4s.; Liehig's "Familiar Letters," 3s.; Faraday's "Chemical Manipulation," very scarce, 10s. 6d.; Smollie's "Midwifery," the volume of plates, 2s. 6d.; Nisbet's "Ohstetrical, Surgical and Infantile Pharmacopocias," 3 vols., 3s. 6d.; Neligan's "Skin Diseases," 2s. 6d. (pub. 10s. 6d.); Yearsley's "Deafness," illustrated, 2s.; Hall's "Diseases Females," coloured plates, 6s. 6d.; Coote's "Syphilis," 3s.; Quincey's "Medical Dictionary," 3s.; Burns "Diseases Women and Children (16s.), 4s.; Marcet on "Stone," coloured plates (18s.), 3s.; Van Butchell on "Piles" (5s.), 2s.; "Nomenclature of Diseases," last, 2s. 6d.; Pomet's "History of Drugs," many plates, 6s. Alfred Davis, 161 Seveu Sisters Road, London, N.
 Thomas' "Modern Practice Physic," 3s.; Ellis's "Demonstrations of Anatomy" (published 12s. 6d.), 3s.; Garrod's "Materia Medica," 1873, 8s. 6d.; Chelius's "System Surgery," translated hy Prof. South, 2 immense volumes, 10s. (cost 3l.); Dobell's "Practical and Scientific Medicine," 2 vols., 10s. (published 1l. 16s.); Coulsous' "Syphilis," nearly new (10s.), 5s.; "Anatomy and Physiology," 3 vols., plates, 3s. 6d.; Bell's "System Surgery," 6 vols., 6s.; Leake's "Diseases Women," 2 vols., 5th edition, 6s.; Caspar Neumann's "Chemical Works," large volume, 5s.; Smellie's "Midwifery," 3 vols., 4s.; "Dictiounaire de Médicine," 4 vols., 4s.; "Dictiounaire de Médicine," 1 vols., 4s.; "Dictiounaire de Médicine," 3 vols., 4s.; "Dictiounaire de Médicine," 1 vols., 4s.; "Protiounaire de Médicine, 7 thick volumes, 7s. 6d.; New Sydenham Society's Puhlications, 6 vols., 10s. (Andan, 7 thick volumes, 7s. 6d.; New Sydenham Society's Puhlications, 6 vo
- Shop drawers, gold-labelled, with glass knobs, 2s. per drawer, superior 2s. 6d., in all lengths; 12 mahogany dispensing-case screens; 2 handsome dispensing-screens, with mirror in centre and a case at each with mirror in centre and a case at each end; 20 mabogany-top counters, all lengths; 3 nests counter-drawers; 3 poison cupboards; 11 mahogany wall-cases; 8 upright cases, with desks; 2 lahel-chest; 9 mahogany window-enclosures; 2 haudsome emhossed silvered plate-giass doors; sodawater stand, as 63 Maw's; sponge-cases, as 90 and 92 Maw's; tooth-hrush cases, as 52 and 72 Maw's; quantity complete shop-fittings, in all lengths, as 189, 190, 196 Maw's; 30 specie-jars, great bargains; 80 pear-shape carboys, all sizes; 600 upright and carboy-shape store-bottles; 2,000 stoppered shop-rounds; 850 ointment and extract jars; 60 blue syrup-hottles; 40 engraved acid-bottles; entire contents of a laboratory; 8 pill machines; 6 tiucturegraved acid-bottles; entire contents of a lahoratory; 8 pill machines; 6 tiucture-presses; counter-scales, as figs. 1, 4, 7 Maw's; 2 250-gall. circular galvanised oil-cisterns; 4 10-gall., 2 40-gall., 1 25-gall. oil-cisterns. Lloyd Rayner, 333 Kingsland Road, London.

Bargains,—Sponge case, fig. 92, 51; 4-ft. 6-in. dispensing screen, as fig. 40, 31.; a ditto, 40 in. long, 40s.; a very handsome dispensing screen, with glass tablet, as fig. 78, 6 ft. long, fitted with shelves at back, lahelled "Dispensing Department," 51.; a ditto, 5 ft. "Dispeusing Department." 51.; a ditto, 5 ft. 9 in. long, 51.; a 4-ft. 3-in. mahogany wall-case, as fig. 198, 91.; a 12-ft. mahogany-top cupboard, as under wall-case, fig. 207 Maw's list, 61.; a nest of fittings, as fig. 197, mahogany fronted, 181.; 9-ft. mahogany-top counter, fitted with 20 drawers under, for labels, &c., &c., 61.; 7-ft. 3-in. ditto, 7 drawers, 41. 10s; a ditto, 5 ft. 4 in., 23 drawers, 41. 10s; a ditto, 5 ft. 4 in., 23 drawers, 41. 10s; a ditto, 5 ft. 4 in., 24 drawers, 41. 10s; a ditto, 5 ft. 4 in., 25 drawers, 41. 10s; a ditto, 5 ft. 4 in., 26 drawers, 41. 10s; a ditto, 5 ft. 4 in., 27 drawers, 41. 10s; a ditto, 5 ft. 4 in., 28 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 29 drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers drawers, 41. 10s; a ditto, 5 ft. 4 in., 20 drawers drawers, 41. 10s; a ditto, 5 ft. 4 in., 4 fronted drawers, glass knobs and golu ianeis, 2s. 6d. per drawer; a number of deal painted and grained mahogany ditto, ls. 6d. per drawer. E. Natali, 207 Old Street, almost opposite Great Eastern Street, E.C.

FORMULÆ.

Two hundred valuable receipts, carefully copied, 30s., exchange 40s. 19/16B.

Teeth extracted; new painless process; particulars of operation. Johnston, at Ward's, chemist, Berwick. Also patent handled teeth-forceps, &c. 16/23.

Eau de Cologne, transparent cement, dentifrice water laweder weter between scales.

water, lavender water, hay rum, sachet powder, plate powder, baking powder, lemon kall, toilet vinegar, fumigating pastilles; all excellent preparations; formulæ, 3s. 6d. each. "Chemist," 45 Great Charlotte Street.

Liverpool.

Enverpool.

Eau de Cologne (equal to geuuine). Fragrant foaming dentifrice (similar to Floriline); effervescung fruit saline (resembles Eno's); effervescurg fruit saline (resembles Eno's); spleudid black ink (never corrodes steel pens); marking ink (black or red); golden hair-wash; brilliantine (inseparable); hay rum (spleudid imitation); hair colour restorer; pomade for removing and preventing scurf; Kaloderma, or skin beautifier; cherry tooth paste (never ferments); cement (equal to Coaguline); pill coating (pearly white); magic neuralgic drops (never-failing remedy); copaiba paste (transparent); with many others, send stamp for list. The toilet requisites are identical with those prepared by a renowned Stamp for 1st. The toler requisites are identical with those prepared by a renowned West-cud perfumer; the others are equally good; all are inexpensive to prepare; 5s, each (five for 1L); inquiry letters must be pre-paid. "Aualyst," care of Mr. Warues, 79 Gaisford Street, N.W.

WANTED.

Spray producer for throat. 27/16.

Pharmaceutical Journal, Nos. 330, 335, 336, 337.

Griffith, Chemist, Slough.

A set of tooth forceps, cheap. Address, George Taylor, 56 Newport Road, Middlesborough, Howard's quinine and McFarlane's mur. morphia, Patents in exchange. 9/26. A copy of the "Dispenser's Vade Mecum," puh-

A copy of the "Dispenser's Vade Meeum," published 10 or 15 years ago. State price. 3/28.

Beasley's "Pocket Formulary and 300 Prescriptions." Kendall, Blyth.

Soda-water machine, with hottling apparatus, in good order, lowest cash price to G. B., 285 Camberwell Road, London.

Good vulcaniser and other dental requisites; also Richardson's "Mechanical Dentistry," latest edition. 3/15.

Third editiou Bentley's "Botany," Barlow's "Practice of Medicine." Corfe Chemist.

"Practice of Medicine." Corfe, Chemist, Maidstone

Will send Pharmaceutical Journal, weekly, for Chemist and Druggist, monthly. Mathew,

Chemist, Saltash.
few Chemist and Druggists in exchange for patents. Charles Wild, Sydenham, Tets-

Wanted to purchase, various chemical apparatus,

worth.

Wanted to purchase, various chemical apparatus, retorts, jars, &c., by a student. Address, W., & Camdeu Avenue, Peckham.

The Pharmaceutical Journal complete, from 1868 to 1878; Gray's "Supplement to the British Pharmacop pia"; state lowest cash price to Beverley, Chemist, Fife Keith.

O. P. Brown's blood purifier, Woodhouse's rheumatic clixir, Pare's worm-killer, James's life pills, Liverpool make, set teeth-stopping iustruments. 8/14C.

Four 12-gallon pear-shape carboys, or four swanneck, and four 27 or 30 inch specie jars, in good condition. A. C. F., 23 Southampton Row, Holborn, London, W.C.

Apparatus and chemicals, suit Attfield's "Chemistry," Bentley's "Botany," Squire's "Companion," Royle's "Materia Medica," Proctor's "Pharmacy," materia medica cahinet. Hughes, Llandyssil, Camarthenshire



THERE is still perceptible a very distinct feeling of confidence in the prospect of a renewal of activity in the various branches of manufacturing trade. In many important sections of industry a large volume of business is being transacted, but in none has any appreciable improvement in prices yet resulted. The stock markets have of late shown a much more healthy vigour, and this is the strongest evidence of that gradual decline of timidity which has for so long held all enterprise in check. Those who think that the highest point of England's commercial greatness has been touched have only to contemplate the vast fields in Asia and Africa, as yet almost untouched by civilisation, to regain their faith. The deeline of warlike fevers among the nations of Europe, and the revival of attention towards more fruitful enterprises can now be clearly traced, and these are auguries of another era of commercial energy.

The Board of Trade returns for May show a decrease of nearly 11 per cent. in the value of the imports, and an increase of 2 per cent. in the value of the exports for that month as compared with the corresponding month of last year. This is the first month of this year that an improvement has been shown in the exports, but it is not proof of much increase of business, inasmuch as the returns for May, 1878, were especially unfavourable in comparison with those of May, 1877, as the following figures will show:—

The trade in chemicals has been interfered with to a great extent by Whitsuntide, but in bulk it seems to have been fully up to the average. Buyers, however, still have the best of it, and the production being always in excess of the demand, it is impossible to make any headway in prices. Makers complain that they cannot now induce forward contracts, and large buyers can often place their orders at a fraction below nominal quotations. Bicarbonate of soda is now sold for 9s. 3d. instead of 9s. 6d. as last month, crystals have declined from 3l. 5s. to 3l. 2s. 6d., bleaching powder sells at 5s. 9d. landed.

Citric acid is firm at 1s. 10d., tartaric is hardly so firm at 1s. 4\d. for English crystals, and most business has been done in foreign make at 1s. 3\d. Cream of tartar is firm at 02s. to 103s.

Chlorate of potash has declined fractionally, but is now firmer, and can hardly be bought at less than $6\frac{1}{3}d$. Prussiate and bichromate are unchanged. Ashes are a trifle lower.

There is no change in the salts of ammonia, brimstone is a little lower, arsenic selling freely but in good supply, sulphate of copper 3d. dearer at 18s. 3d., and likely to advance.

Saltpetre is a shade weaker, but nitrate of soda has advanced from 14s. to 14s. 3d. in consequence of the war in

Chili. Borax is rather firmer.

The reports of an inferior opium crop still continue, but at present they have no influence on the market quotations. An advance during the summer is still probable, but as those with the best means of knowing do not venture to speculate, it seems probable that the crop is again an unusually good one. The advance in morphia is still maintained.

Quicksilver is still very dull, and during the past few days has been sold as low as 6t per bottle. Mercurials are 1d.

and 2d. per lb. cheaper.

The demand for quinine has decidedly slackened, and all brands are 1s. lower than last month. Barks still fairly maintain their value, but the stimulus to the growth which the high prices of the past year or two have given will assuredly have its effect before very long, and as an increased supply of the raw material may very likely coincide with a period when army orders will have fallen to peace-footing dimensions, a course of unusually low prices may set in earlier than many speculators imagine.

The attempt to force up the price of camphor is impracticable, in view of the present large stocks. Buyers have

refused to take parcels at recent nominal quotations, and privately lower terms have been accepted.

Cardamoms have arrived abundantly, and though for a time holders refused to let go except at the recent advance, they have since abandoned their hopes, and prices have fallen to normal rates.

Balsam copaiba is quiet but firm, balsam Peru has declined from the recent advance, but tolu has gone suddenly from

2s. to 2s. 6d.

A hurricane in the island of Réunion has partially destroyed the crop of vanilla, and Mexican reports are also very unfavourable. The price is much higher, and will probably advance still further.

Gum arabic has been selling at higher prices for good sorts and selected; Australian, however, tends downwards. Asafœtida, ammoniacum, and benjamin in abundant supply, and prices tending downwards. Myrrh selling well at steady rates. Copal is dearer. A recent speculative movement in shellac has caused an advance of 2s. to 3s.

The demand for musk has quieted down, and recent prices

are not maintained.

Aloes still maintain their price if good qualities are brought forward, but lower kinds are cheaper.

Essences of bergamot and lemon are still selling at low prices, though Italian holders are rather firmer in regard to the latter. American oil of peppermint is rather dearer. Castor oil is abundant and dull. Almond oil is quiet at

Castor oil is abundant and dull. Almond oil is quiet at 1s. 9d. The new cod-liver oil is said to be unusually fine.

A Bergen report says that the Norwegian cod fishery has

A Bergen report says that the Norwegian cod fishery has resulted more successfully than has almost ever been known previously, and the report also states that the proportion of medicinal oil prepared has not been reduced on account of the low prices. If this be correct, a low-priced season for Norwegian oil may be anticipated.

An advance of 2l. has been attained in linseed oil, which

An advance of 2l. has been attained in thiseed oil, which is now quoted at 28l., though latest transactions indicate a trifling reaction. Rape has been quiet, and has slightly declined in the month. Olive oils are now firmly held, but there is still only a slight demand. Holders, however, insist on higher prices, and confidently predict a considerable advance. Seville has realised 49l.; Sicilian, 44l. 10s. to 45l.; Corfu, 43l. to 44l. Whale and seal oils are quiet, but an advance has been established in cod. American turpentine has declined to 21s. 6d. for spot, but 22s. is paid for delivery in September. Petroleum again marks a decline. It has touched as low as 6\frac{1}{2}d., but is now a fraction higher. The enormous shipments of this product account for the extraordinarily low price. Up to May 27, 97,000,000 gallons had been shipped from New York during the current year, while in the same period of 1878 the shipments only reached 75,000,000 gallons.

We append the record of stocks of drugs in the port of

London on May 31.

		1879	1878		1879	1878
Ì		1010	10.0		1010	1010
l						
ł	Aloescs	1,671	1,624	Gum (Cont)-		
Į	,,kegs	11	14	Assafætida pkgs	532	296
ĺ	,,gourds	755	1,279	Benjamin ,,	1,100	531
١	Aniseed, Star chts	615	935	Damar	230	1,027
į	Arrowrootcks	12,332	16,711	Galbanum ,,	19	25
I	"bxs & tins	11,563	7,809	Gamboge ,,	128	148
ŀ	Balsamcks, &c.	39	114	Guaiacum ,,	48	36
ļ	Bark, Medicinal			Kino	37	11
i	cks, &c.	154	878	Kowrietns	826	928
ĺ	_ ,, srns, &c.	13,278	7,139	Masticpkgs	145	148
ł	Boraxpkgs	628	912	Myrrh, E.I. ,,	189	262
1	Bees' Waxbls &			Olibanum ,,	2,609	3,544
Ì	srns	599	503	Sandarac ,,	863	1,027
Į	" cks & cs	2,596	1,338	Senegaltns	53	18
į	,, cakes	27	53	Tragacanth pkgs	1,879	1,469
1	Wax, Jap.veg. pkgs	4,422	5,652	Ipecaccks & bgs	192	225
ı	Camphorpkgs	10,226	4,993	Jalapbls	468	480
ı	Cardamomschts	556	423	Nux Vomica pkgs	3,570	4,160
ı	Cocc. Ind. bgs, &c.	1,597	2,069	Oil		
Į	Colombo root pkgs	559	643	Castorcks	16	1
	Cream Tartarcks	101	102	,,cs	7,123	2,452
ł	Cubebsbgs	162	184	Palmtns	1,428	226
ĺ	Dragonsblood chts	50	92	Cocoanuttns	4,059	1,691
ļ	Galls, E.I. cks & cs	2,588	3,061	Olivecks, &c.	925	849
i	M'terranean sks	916	1,404	Aniscedcs	110	202
ı	Gum-	101		Cassiacs	307	662
J	Ammoniac pkgs	491	505	Opiumchts, &c.	891	1,591
ı	Animi & Colal	0.000	0.070	Rhubarbchts	1,151	1,175
J	pkgs Anabia Danbana	3,868	8,278	Sarsaparillabls	698	1,116
ı	Arabic, Barbary	1 900	1,003	Sennabls, &c.	1,090	2,412
1	pkgs	1,388	377	Shellacchts Turmerictns	41,279	43,176
	Turkey ,,	1 659	2 470	Turmeric ths	1,724	1,499

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusious respecting the prices at which articles are offered by the Wholesale Firms.

Acetic per lb. 0 2½ to 0 0 0 2½ to 0 0 0 Citric 110 0 0 0 2 2 2 0 0 0 0 0 0 0 2 2 2 0	offered by the Wholesale F	irm	S.			•	1						
Acetic	CHEMICALS.			1879	Э.			1878.					
PRUSSIAN BLUE	Acetic per l Citric " Hydrochlor per cr Nitric per l Oxalic " Sulphuric " Tartaric crystal " powdered " ANTIMONY ore per tc crude per cv star " ARSENIC, lump " BRIMSTONE, rough per tc flour " IODINE, dry per cv MACNESIA, calcined per l MERCURY per l MERCURY per ox MINIUM, red per cwt orauge " PRECIPITATE, red per l per l	wt. b. 22	0 1 1 5 0 0 0 0 0 1 1 1 1 440 8 6 6 6 8 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2½ to 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 4 10 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1414	244 3 4 4 29 116 116 1140 119 313	0 2 2 4 4 0 0 0 0 0 1 1 1 1 0 0 0 0 0 1 1 1 1	22	30 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Alum per ton 120 0 122 6				^						`			
Dowder		1 12	0 (12	2 6		125) ,,	13	0 0	
Hydrocblorate, crude, white per ton 600 0 . 720 0 British (see Sal Am.) Sulphate per ton 360 0 . 365 0 . 400 0 . 410 0 Argol, Cape percwt. 75 0 . 82 0 . 75 0 . 90 0 Red, 56 0 . 70 0 . 58 0 . 70 0 Oporto, red., 28 0 . 30 0 . 32 6 . 33 0 Sicily, 60 0 . 65 0 . 60 0 . 65 0 Ashcs (see Potash and Soda) Bleaching powd per cwt. 5 9 0 0 0 . 5 6 . 5 9 Borax, crude, 27 0 . 33 0 . 26 0 . 28 0 British refnd., 36 0 . 37 0 . 36 0 . 37 6 0 . 28 0 British refnd., 36 0 . 37 0 . 36 0 . 37 6 0 . 28 0 British refnd. , 36 0 . 37 0 . 36 0 . 37 6	powder,							145		,			
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Potassium:	sortper cwt. Chlorateper lb. Prussiate, red,	$\begin{array}{c} 0 \\ 0 \\ 1 \end{array}$	$^{6}_{10\frac{1}{4}}_{8}$	•••	0 0 1	$6\frac{1}{8}$ $10\frac{3}{4}$ $10\frac{1}{2}$		0	67 10		0	7	
Chlorideper cwt. 6 6 0 0 0 6 6 6 0 0 0 1 0 1 0 0 1 0 0 0 0	Potassium:	,	0					0	0				l
bottles per oz. 11 6 0 0 13 6 13 8 Sulphate, French , 11 6 12 0 0 0 0 0 0 Sal Acetos per lb. 0 6 0 6½ 0 7 0 0 Sal Ammoniac, Brit. cwt. 4½ 0 45 0 42 0 43 0 Saltpetre: Bengal, 6 per cent. or under per cwt. 18 9 19 3 20 0 20 9 Bengal, over 6 per cent. per cwt. 17 9 18 6 19 3 19 9 Soda: Bicarbonate, pcwt. 23 6 2½ 6 2½ 9 25 9 Soda: Bicarbonate, pcwt. 9 3 0 0 9 6 9 9 Carbonate: Soda Ash per deg. 0 1½ 0 0 0 0 0 0 0 0 Soda Crystals per ton 62 6 0 0 0 67 6 70 0 Hyposulphite, per cwt. 0 0 0 0 0 0 0 0 0 Nitrate , 1½ 0 1½ 3 16 0 0 0 Sugar Of Lean, Whitecwt. 38 0 0 0 37 6 0 0 Brown, cwt. 26 6 0 0 0 26 6 0 0	Chlorideper cwt. Todideper lb. Quinine:	6	6	• •	0	0		6	6	• •	0	0	
Sal Acetosper lb. 0 6 0 6 0 7 0 0 Sal Ammoniac, Brit.cwt. 44 0 0 45 0 42 0 0 43 0 Salty Petre : Bengal, 6 per cent. or underper cwt. 18 9 19 3 20 0 20 9 Bengal, over 6 per ceut. per cwt. 18 9 18 6 19 3 19 9 British. Tefined 23 6 24 6 24 9 25 9 Seda: Bicarbonate, p.cwt. 9 3 0 0 9 6 0 9 9 Carbonate : Soda Ashper deg. 0 1½ 0 0 0 0 0 0 Soda Crystals per ton 62 6 0 0 67 6 70 0 Hyposulphite, per cwt. 0 0 0 0 0 0 0 Nitrate 14 0 14 3 16 0 0 0 Brown, cwt. 26 6 0 0 37 6 0 0 0 Brown, cwt. 26 6 0 0 26 6 0 0	bottlesper oz.												
under per cwt. 18 9	Sal Acetosper lb. Sal Ammoniac, Brit. cwt. Saltpetre:	0	6	• •	0	61		0	7	• •	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	under per cwt.	18	9	••	19	3		20	0	••	20	9	
Soda Ash., per deg. O 1½ O O O O O O	per cwt. British. refined ,, Soda: Bicarbonate, p.cwt.	23	6		24	6		24	9	• •	25	9	
Hyposulphite, per cwt, 0 0 0 0 0 0 0 0 0 Nitrate, 14 0 14 3 16 0 0 0 0 Sugar of Lead, Whitecwt, 38 0 0 0 37 6 0 0 Brown, cwt. 26 6 0 0 26 6 0 0	Soda Ashper deg.												
SULPHUR (see Brimstone)	Hyposulphite, per cwt. Nitrate, GUGAR OF LEAD, White cwt. Brown, cwt.	$\begin{array}{c} 0 \\ 14 \\ 38 \end{array}$	0 0		$\begin{smallmatrix}0\\14\\0\end{smallmatrix}$	0 3 0]	0 16 37	0 0 6	••	0 0	0 0	
	SULPHUR (see Brimstone)					1					,	- 1	

1879. 1878. 1878. 1878.	. s. d.
VERDIGRIS per lb. 0 0 to 0 0 0 0 0 0 1 1 to VERMILION, English 2 2 0 0 2 8 China 2 3 0 2 8 DRUGS ALOES, Hepatic per cwt. 70 0 160 0 80 0	
VERMILION, Engosh , 2 2 0 0 China , 2 3 0 0 DRUGS. ALOES, Hepatic per cwt. 70 0 160 0	
China ,, 2 3 0 0 2 5 DRUGS. ALOES, Hepatic per cwt. 70 0 160 0 80 0	1 5
DRUGS. ALOES, Hepaticper cwt. 70 0 160 0 80 0	0 0
ALOES, Hepatic per cwt. 70 0 160 0 80 0	0 0
	180 0
	200 0
Cape, good, 47 0 50 6 43 0 Inferior, 40 0 46 0 35 0	44 6
Barbadoos 25 0 100 0 40 0	42 0 160 0
AMBERGRIS, grey0z. 47 0 68 0 80 0	90 0
BALSAM—	
Canadaperlb. 0 9 1 0 0 9 Capivi 1 4 1 11 1 6	1 2
Power	$\begin{array}{cccc} 1 & 8 \\ 0 & 0 \end{array}$
1 Tolu 2 6 0 0 1 3 0	3 3
DARKS-	
Canella albaper cwt. 20 0 28 0 18 0	22 0
Cascarilla , 24 0 35 0 16 6 Peru, crown & grey per lb. 1 0 2 5 1 0	$\begin{array}{ccc} 23 & 0 \\ 2 & 10 \end{array}$
Calisaya, flat ,, 2 0 3 6 2 6	4 6
, quil , 2 6 . 6 10 4 3	8 0
Carthagena ,, 2 7 4 0 1 4	4 2
Columbian ", 1 10 8 0 1 6 E. I , 1 6 3 8 1 3	6 9
, good & fine , 4 0 11 0 5 0	$\begin{array}{ccc} 4 & 10 \\ 12 & 7 \end{array}$
Pitayo , 1 6 3 3 0 6	$\tilde{1}$ $\dot{6}$
Red 3 6 8 6 3 0	9 0
Buchu Leaves, 0 2½ 1 1 0 2½	1 3
CAMPHOR, China per ewt. 75 0 0 0 77 6 Japan , 77 6 80 0 82 6	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
Refin. Eng. per lb. 1 01 0 0 1 11	0 0
CANTHARIDES 1 6 4 3 2 2	5 0
CASTOPERM porth 16 0 90 0 0	00 0
Dragon's Blood, lp, p, cwt, 100 0 260 0 100 0 2	30 0 80 0
FRUITS AND SEEDS (see also Seeds and Spices).	00 0
Anise, Unina Star per cwt. 82 0 90 0 75 0	80 0
Boong Tonguin poulls 4 C C C 1 0	50 0
Beans, Tonquinper lb. 4 6 6 6 1 9 Cardamoms, Malabar	5 0
good , 5 6 7 3 5 0	6 3
inferior ,, 2 0 5 0 1 9	4 10
Aleppy ,, 2 0 6 6 2 0	5 6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 6 5 0
	39 0
Castor Seeds , 0 0 0 0 0 0	0 0
	10 0
Colocynth, appleper lb. $1 \ 3 \ \dots \ 110 \ 26 \ 0 \dots$	$\frac{1}{9}$
	35 0
Cummin 27 0 44 0 20 0 8	35 0
Dividivi 12 0 15 6 12 0 1	6 0
Cuinas Cusina	$\begin{bmatrix} 2 & 0 \\ 0 & 0 \end{bmatrix}$
	$\begin{array}{ccc} 0 & 0 \\ 9 & 0 \end{array}$
Nux Vomica 6 0 9 0 9 6 1	3 0
Tamarinds, East India,, 8 0 15 0 12 0 1	
West India ,, 18 0 24 0 29 0 3	
Vanilla, large per lb. 28 0 34 0 20 0 2 inferior ,, 12 0 7 6 15 0 1	
GINGER, Preserved, per lb. 0 5 0 6 0 5	0 6
HONEY, Chili per cwt. 30 0 34 0 37 0 5	0 0
Jamaica ,, 35 0 41 0 38 0 4	
Indicate and the second	0 0 5 7
	4 9
Tongue sort ,, 3 2 5 2 3 8 8	5 6
East India , $1 0 \cdot $	
West India ,, 3 5 5 2 3 8 4 Russ, long staple 6 0 10 6 8 0 18	
,, inferior 0 0 0 0 0 (0 (
" Simovia 1 6 2 6 1 6 3	3 0
JALAP, good , $1 0 12 0 9 0$ infer. & stems , $0 10 011\frac{1}{2} 0 7 0$	
LEMON JUICE per degree 0 $0\frac{7}{8}$ 0 $1\frac{1}{4}$ 0 1 0	
Lime Juiceper gall. 1 3 1 8 0 0 0	0 0
Liquorice, Spanish per cwt. 0 0 0 0 34 0 39	
Liquorice Root ,, 0 0 0 0 0 0 0 MANNA, flakyper lb. 0 0 0 0 3 6 4	
small, 0 0 0 0 1 4 1	
MUSK, Podper oz. 20 0 66 6 21 0 62	
Grain, 30 0 51 0 20 0 55	0
OILS (see also separate list) Almoud, expressed per lb. 1 9 0 0 1 10 0	0
Castor. 1st palc 0 41 0 51 0 51 0	53
second , $0 3\frac{3}{4} 0 4 0 4\frac{5}{4} 0$	5 <u>‡</u>
Cod Liver per gall. 2 6 4 6 4 0 5	U
Croton per oz. $0 2\frac{1}{2}$ $0 3$ $\theta 2\frac{1}{2}$ 0 Essential Oils:	31
Almond per lb. 20 0 0 0 25 0 0	0
Anise-secd ,, 7 8 0 0 7 0 7	3
Demonstrate Co.	6
Bergamot per 1b. 6 0 9 0 10 0 15	3
Cajeputper bottle 3 6 4 0 3 0 3	
Bergamot per 10. 6 0 9 0 10 0 15 Cajeput per bottle 3 6 4 0 3 0 3 Caraway per lb. 0 0 0 0 9 0 9 Cassia , 2 9 2 10 2 9 0	0
Bergamot per 10. 6 0 . 9 0 10 0 15 Cajeput per bottle 3 6 . 4 0 3 0 . 3 Caraway per lb. 0 0 . 0 0 9 0 . 9 Cassia , 2 9 . 2 10 2 9 . 0 Cinnamon per 0z. 3 9 . 4 6 4 3 . 5	0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 3 0 3 <u>1</u>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 3 0 31 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 3 0 3 2 0 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 3 0 31 0

1879.	1878.	1879.	1878.
Essential Oils, continued:— s. d. s. d. Nutmegper oz. 0 3 0 31	s. d. s. d. 0 4 to 0 4 1	Oils, continued:— £ s. £ s. WHALE, South Sca, pale, per tun 27 0 to 0 0	£ s. £ s. 32 0 to 0 0
Orangeper lb. 5 0 7 0	4 3 7 0	yellow ,, 25 0 26 0	31 0 0 0
Otto of Rosesper oz. 18 0 30 0 Patchouli , 1 6 3 0	1 6 3 0	East India, Fish ,, 0 0 0 0	0 0 0 0
Peppermint: Americanper lb. 7 6 9 6	10 9 12 6	OLIVE, Galipoliper ton 0 0 0 0 Gioja, 0 0 0 0	$\begin{smallmatrix}0&0&\dots&0&0\\0&0&\dots&0&0\end{smallmatrix}$
English , 21 0 23 0	24 0 25 0	Levant , 43 0 0 0	0 0 0 0
Rosemary, 0 0 0 0	2 3 2 6	Spanish ,, 49 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Sassafras , 2 0 2 3 Spearmint , 8 0 9 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sicily ,, 44 10 45 0 Cocoanur, Cochin ,, 42 0 50 0	0 0 0 0
Thyme, 0 0 0 0	0 0 0 0	Ceylon ,, 36 10 37 5	39 0 39 15
Mace, expressedper oz. 0 5 0 0 OPIUM, Turkeyper lb. 17 0 18 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mauritius ,, 37 10 37 15 GROUND NUT AND GINGELLY:	38 0 39 10
inferior , 10 0 15 0 QUASSIA(bitterwood)perton 100 0 130 0	10 0 12 0 ° 100 0 130 0	Bombay	0 0 0 0
RHUBARB, China, good and		PALM, fine 32 10 0 0	39 0 0 0
Mid. to ord, 0 3 2 3	1 0 2 6	LINSEED	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Dutch Trimmed, 0 0 0 0 ROOTS—Calumbapercwt. 25 0 50 0	0 0 0 0 19 0 51 0	brown 28 5 0 0 Foreign, pale 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
China	25 0 30 0	brown 0 0 0 0	0 0 0 0
Galangalper cwt. 21 0 23 0	21 0 21 6	LARD 36 0 36 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Gentian , 16 0 20 0 Hellebore , 0 0 0 0	19 0 21 0 0 0 0 0	TALLOW 30 0 35 0 s. d. s. d.	30 10 34 10 s. d. s. d.
Orris, 20 0 45 0	55 0 65 0	TURPENTINE, American, cks. 21 6 0 0	24 6 0 0
Pinkper lb. 1 0 1 4	0 0 0 0	Petroleum, Crude 0 0 0 0	0 0 ., 0 0
Rhatany, 0 2 0 5 Seneka, 1 9 1 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	refined, per gall. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Snake	0 10 1 0	SEEDS.	47 0
SALEP percwt. 120 0 140 0	240 0 300 0	CARAWAY, English per cwt. 0 0 0 0	43 0 45 0
SARSAPARILLA, Lima per lb. 0 4 0 5½ Guayaquil, 1 1 1 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	German, &c 0 0 0 0 CORIANDER 14 9 20 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Honduras, 1 0 1 4 Jamaica, 1 3 1 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	HEMPper qr. 39 0 44 0 LINSEED English , 60 0 68 0	0 0 0 0
SASSAFRASpercwt. 0 0 0 0	9 0 11 0	Black Sea & Azof 50 6 0 0	0 0 0 0
SCAMMONY, Virginper lb. 23 0 25 0 second & ordinary ,, 8 0 20 0	0 0 0 0	Calcutta ,, 51 6 52 0 Bombay ,, 53 0 0 0	$\begin{bmatrix} 48 & 0 & \dots & 0 & 0 \\ 51 & 0 & \dots & 0 & 0 \end{bmatrix}$
Senna, Bombay, $0 0 1 0 2 1 1 0 9$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	St. Petrsbrg.,, 0 0 0 0 Mustard, brownper bshl. 0 0 0 0	0 0 0 0
Alexandria, $0 \ 3\frac{1}{2} \ 1 \ 0$	0 5 1 6	white ,, 9 0 12 6	13 0 16 0
American , 1 1 1 2	1 3 0 0	POPPY, East India, per qr. 51 0 0 0 SPICES.	51 6 52 0
SQUILLS, 0 1 0 6	0 2½ 0 4	CASSIA LIGNEAper cwt. 37 0 45 0 Vera, 22 0 35 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
GUMS. £ s. £ s. 2 10	£ s. £ s. 1 18 2 5	Buds ,, 57 0 58 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
lump ,, 0 12 2 0	0 15 1 15	CINNAMON, Ceylou: 1st quality per lb. 1 0 3 4	1 8 2 10
Animi, fine washed ,, 14 0 15 10 bold scraped ,, 12 0 13 15	13 15 14 10 12 0 13 10	2nd do , 0 11 2 4 3rd do , 0 10 1 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
sorts , 9 10 11 17/6 dark , 5 5 9 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Tellicherry, 1 8 2 0	0 0 0 0
ARABIC, E.I., fine	0.17	CLOVES, Penang , 1 7 1 9	1 7 1 9
srts.,md.tofin. ,, 1 8 2 14	2 0 2 14	Amboyna, $1 ext{ 4} ext{ } 1 ext{ 6}$ Zanzibar, $1 ext{ 3\frac{1}{2} 1 ext{ 4}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
garblings ,, 1 3 1 15 TURKEY, pick, gd. to fin. ,, 6 5 9 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	GINGER, Jam., fine per cwt. 90 0 200 0 Ord. to good , 50 0 80 0	90 0 202 6
second & inf. , 3 5 6 0 in sorts , 1 15 3 5	3 0 5 15 2 10 3 16	African ,, 20 0 0 0	24 0 25 0
Gedda , 1 12 2 3	1 14 1 19	Malabar ,, 0 0 0 0	$\begin{bmatrix} 20 & 0 & \dots & 0 & 0 \\ 0 & 0 & \dots & 0 & 0 \end{bmatrix}$
AUSTRALIAN , 1 15 2 10	1 19 2 10	Cochin, 33 0 120 0 PEPPER, Blk, Malabar, perlb. 0 3\frac{3}{4} 0 4\frac{1}{4}	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Assarcetida.cm.to fin , 1 8 2 12 Benjamin, 1st & 2nd , 21 0 70 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Singapore, $0 3\frac{3}{3} 0 3\frac{1}{2}$	0 31 0 38
Sumatra 1st & 2nd , 6 0 16 10	6 10 17 0	Cayenne ,, 1 0 3 0	1 4 3 0
COPAL, Angola red ,, 3 5 6 0	6 0 6 15	2ud and inferior , 1 0 1 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Benguela ,, 3 0 3 10 s. d. s. d.	4 0 5 0 s, d. s, d,	NUTMEGS, 78 to 60 to lb.,, 3 5 5 0 90 to 80 ,, , 2 11 3 4	3 8 4 6 3 0 3 8
Sierra Leone, per lb. 0 $7\frac{1}{2}$. 0 10 Manillaper cwt. 16 0 . 24 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	132 to 95 ,, ,, 1 10 2 10	1 10 2 10
DAMMAR, pale ,, 85 0 0 0	75 0 80 0	VARIOUS PRODUCTS.	0 4 0 41
EUPHORBIUM ,, 0 0 0 0	9 0 15 0	Honduras, blackper lb. 0 0 0 0	2 2 2 6
GALBANUM per lb. 0 0 0 0 GAMBOGE,pckd.pipe per cwt. 200 0 250 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$,, silver, 0 0 0 0 ,, pasty, 0 0 0 0	$\frac{2}{1}$ $\frac{1}{2}$ $\frac{2}{2}$
GUAIACUMper lb. 1 0 2 9 KINOper cwt. 60 0 90 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mexican, black, 2 2 2 4	2 1 0 0
Kowre, sorts , 35 0 48 0	18 6 43 0	Teneriffe, black ,, 2 2 2 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
MASTIC, picked per lb. 2 6 3 0	100 0 170 0	soap, Castileper cwt. 25 0 43 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
MYRRH, gd. & fine per cwt. 150 0 250 0 ord. to fair , 60 0 150 0	150 0 200 0 100 0 150 0	SOY, China, gall. 1 11 2 0	2 7 0 0
OLIBANUM, p. drop , 80 0 86 0 amber & ylw. , 70 0 78 0	47 0 50 0 36 0 46 0	Gambier per cwt. 16 0 0 0	16 6 16 9
g urblings ,, 23 0 34 0	12 0 28 0	Cutch, 23 0 26 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SANDARAC, 55 0 88 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	WAX, BEES, English ,, £0 0 £0 0 Jamaica , 6 10 7 0	£0 0 0 0 7 0 7 15
SHELLAC, Orange ,, 74 0 88 0 Liver ,, 70 0 76 0	72 0 85 0 63 0 70 0	East India, 5 10 6 0	7 5 . 7 15
TRAGACANTH loof	20 0 21 6	WOOD, Dye, Barperton 3 10 0 0	3 0 3 5
in sorts , 70 0 190 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Brazil , 12 0 45 0 Cam , 20 0 23 0	$\begin{bmatrix} 14 & 0 & \dots & 20 & 0 \\ 22 & 0 & \dots & 34 & 0 \end{bmatrix}$
OILS. £ s. £ s.	£ s. £ s.	Fustic, Cuba, 0 0 0 0 Jamaica, 6 0 6 10	8 0 8 10
SEAL, paleper tun 28 0 0 0 yellow to tinged ,, 25 0 27 0	32 10 33 0 30 10 32 0	Logwood, Campeachy,, 7 10 8 0	8 5 8 15
brown ,, 23 0 24 0 SPERM ,, 55 0 0 0	28 0 29 0	St. Domingo , 5 5 6 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Вору , 0 0 0 0	0 0 0 0	Jamaica ,, 5 10 0 0 LIMA, first pile ,, 10 10 11 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Gob	32 0 0 0	RED SANDERS ,, 5 10 6 0	5 10 0 0;



35/72. Homœopathie Pharmacy.—Country Chemist.—The Homœopathie Pharmacopeia is the only work we know of which gives directions for making homœopathic preparations. In the preface it says:—"The object of this work is to instruct homœopathic chemists in all the processes peculiar to homœopathic pharmacy, but no attempt is made to teach them the entire art of pharmacy. No one should prefind to make homœopathic medicines who is not thoroughly versed in the art of pharmacy, and has not had large practical experience in the selecting of drugs, and in making all the ordinary preparations employed by chemists." Pilules are made by manufacturing confectioners of sngar and starch, and medicated by the wholesale homœopathic chemists. This is effected by thoroughly drying them, placing them in a bottle, pouring over them a sufficient quantity of the tincture or attenuation to be employed, and agitating till it is uniformly absorbed. The Pharmacopeia is published by the British Homœopathie Society, Great Ormond Street, W.C.

36/70. P. C. X.—(1). Attield's "Chemistry," Muter's "Chemistry,' Proctor's "Pharmacy." (2). We do not undertake to adjudicate the merits of different machines. We should advise you to get prospectuses from Coeking, of Sittingbourne, and Pindar, of Church Road, Camberwell. (3). Cartner's pill-coating machine (see advertisement pages), will probably answer your purpose. (4). We know of no accurate method of dividing powders but weighing them. The small scidlitz measures are, however, sufficiently trustworthy for many purposes. (5.) Jourdan's "Pharmacopæia Universalis" is the most extensive work of the kind. It is out of print, but a copy could doubtless be obtained by advertising in suitable places. The foreign pharmacopæias can be obtained through any foreign bookseller.

11/69. Hydrogen Peroxide.—Jumna.—We do not think you can make hydrogen peroxide economically. If you do not want it perfectly pure you could probably obtain a fairly strong solution from the Sanitas Company. It is most easily made by passing carbonic anhydride through water containing barium peroxide in suspension. Malt yerbine is a proprietary article, consisting probably of mult extract and guarana—yerba buena.

37/67. **Leeming's Essence**.—Lobelia.—A correspondent gave us the following formula, which we published two or three years ago, but we cannot say whether it correctly represents the original:—

Cantharides 8 02. 2 oz. Camphor 8 oz. Euphorbium 1 oz. Oil of origanum 3 oz. Castile soap Spirits of wine .. 6 pints

Discot for fourteen days and filter.

37/71. Chemist's Apprentice.—Herb beer may be variously made, according to the object for which it is to be taken. As a stomachic, wormwood, gentian, Seville orange-peel, angelica, and centanry are infused for a few days in beer. A compound extract of sarsaparilla mixed with heer is sometimes called by the name, or the ingredients of decoction of sarsaparilla put in hot water (1 lb, of sarsaparilla to the gallon, with spices to flavour), with the addition of some moist sugar (3 lbs. to 1 gallon), are allowed to ferment.

37/34. Chemistry for Beginners.—Lambda.—The best thing to be done by a beginner who wishes to learn general chemistry is to purchase Roscoc's "Primer of Chemistry," 1s., and try all the experiments and make himself master of the book. If a teacher can then be had we should advise Roscoc's "Elementary Chemistry" as the next work, followed by Valentin's "Chemical Analysis." If the student has to work entirely alone, we think the best work is Attfield's "Pharmaceutical Chemistry," even when a general knowledge is alone required, for it gives more explicit and graduated directions for performing the experiments than any other we know of. After working through the book to the end of the analysis of metals and salts, Fowne's "Chemistry" should be studied to fill the outline of general knowledge.

37/57. Zulu.—See above the answer to " Lamhda."

37/33. Army Medical Department.—Quæsitor.—Every candidate for a commission in the Army Me dical Department must be fully qualified to practice medicine and surgery in Great Britain and Ireland. He must, in addition, pass a special examination before the Army Medical Board, must pass through an entire course of practical instruction at the army medical school, and pass another special examination. He is then eligible for a commission as surgeon for a limited period of 10 years' service on full pay—2501, per annum, with allowances for lodgings, servants, light, and fuel. These are the principal regulations, but there are numerous minor ones, which can probably be obtained from the Medical Department of the Army, 6 Whitehall Yard, London, S.W. It should be distinctly understood that you must be a full-fiedged medical man before you can be a candidate for a commission in the army.

37/59. Engraving Steel.—Ferrum.—The method you described may answer, but all manipulative processes of this kind require much experience

to make them sneeessful. We are convinced that it would pay you better to employ a regular engraver, than to attempt the work yourself.

36/42. Quinine.—"An apprentice has accidentally put some bismuth subnit. into a bottle containing quin. sulph., and they have mixel. I shall be glad if you can tell me how to separate them, or how to utilise them. There is about 1 oz. of quin. sulph., and about 2 oz. or 3 oz. of bismuth."—We should recommend the following plan:—Boil the mixed powders for some minutes in 2 pints of distilled water, in a glass or stoneware vessel, remove from heat, let it stand for a few seconds, then pour off the clear liquid. This will contain all the quinine, which will be deposited in crystals when the solution cools. It may then be drained, pressed between blotting-paper and carefully dried at a low temperature. The mother liquor will retain only a few grains of the quinine. The hismuth should then be boiled with successive half-pints of water, draining between each, until the liquid that comes off does not taste bitter. It may then be dried and need.

37/1. Chamie.—Hair Lotion.—In some cases lotion containing eantharides will stimulate the growth of the hair. When, however, the weakness is constitutional and not affecting the hair-roots alone, nothing can be done until the main cause is removed. A mixture of 4 oz sal volatile, $\frac{1}{2}$ oz. castor oil, and $\frac{1}{2}$ oz. tincture of eantharides is a good stimulating lotion.

38/13. Mottled Soap.—Sapo.—The marbled appearance in soap is produced by pouring any desired pigment on the surface of the soap just hefore the final drying and stirring the mixture a few times according to the rule of the thumb. It is entirely a matter of experience and manipulation, and cannot be conveyed by words. Try and obtain access to a large soap factory, and watch the operation.

36/33. Lead Alloy.—Pharmacist.—Antimony is used in lead alloys to harden and whiten them, as in type metal, &c. It will not give a black or dark mixture. You will be unable to make any alloy of lead which will be black or dark in colour. For the lettering of the exposed monument we should be inclined to use asphalt mixed with enough Canada balsam to make it less brittle, or the paints made by the Silicate Paint Company. It is quite certain that no alloy will answer or give a sightly result.

36/63. Fehling's Solution.—A. B. C.—The preparation of Fehling's solution is fully described in Suttou's "Volumetric Analysis," Attfield's "Chemistry," and Muter's "Chemistry." 35 grammes pure crystallised cupric sulphate are dissolved in a little distilled water; 173 grammes of sodium potassium tartrate are added. 60 grammes of pure potassium hydrate are then added to entirely dissolve the precipitate, and the mixture is made up to one litre, and very earefully preserved. It can hardly he made with success by any but a practised analyst.

35/37. D. T. H. asks:—"Can you tell the necessary form to use in making a will so that a chemist may leave his business to be carried on by or for his widow, until a son is able to take it, or for an indefinite period?"—It would certainly he best to employ a lawyer for such a case, as the form would possibly vary according to other provisions of the will. The simplest form would be to "give, devise, and bequeath to my son . . . the right and title to the chemist's and druggist's business now carried on by me at . . . the said business to be held in trust for the said . . . by . . . [and] until such time as he shall himself become legally qualified to conduct it himself." Under such a trust it would, of course, be necessary to employ a fully qualified assistant as manager. The widow might be joint or sole trustee.

34/36. Fruit.—Infringement would not depend exclusively on the wording of the label. Much importance would be attached to the more or less remote imitation of the package as a whole. As a general principle you should bear in mind that a court of equity will not permit B to take advantage of a reputation which A has acquired, probably by extensive advertising. We are disposed to think that in the case you suggest the label (having regard to that alone) would be within the line of legal safety; but our advice would be to keep as far from the line as possible—not to go as near to it as may be safe.

28/60. A Subscriber (Ireland).—Anyone who was a chemist and druggist in business (whether alone or in partnership) previous to 1875 will have the same rights now as he had then; that is, practically, the right to use the title.

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TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

DEAR SIR,—The business of proprietary preparations being now nearly worthless to the trade, will you allow me to suggest a system which will exterminate the underselling vermin in this branch of the profession. The proprietors have it entirely in their own hands. First, supply the trade direct, all at one price only, without the medium of wholesale houses. Second, supply only for cash with order. Third, contract with some carrier to deliver free all over the United Kingdom. Fourth, stop the supply on proof of underselling. Fifth, stamp the name and address on the label of every bottle of the enstomer to whom it is supplied.

I have no hesitation in saying that good preparations, well advertised, and supplied to respectable chemists only, would be received, patrouised, and the sale forwarded by the whole respectable portion of the trade.

I am, Sir, yours respectfully,

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29 Cinchenidim Culmb 1 1 0 4 5		74. , Antispasmodic 2 3 10 6
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40. , Hydrarg. Subchlor, Co. B.P. 1 3 5 6	62 Opii, Camph. et Tanniu 2 3 10 6	83, Hydrarg. 5 grs 1 6 —
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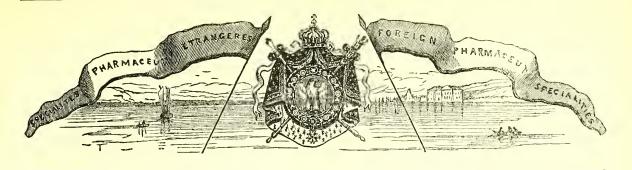
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1/9 ,, Pâte13/	2/9 ,, Pills25/		
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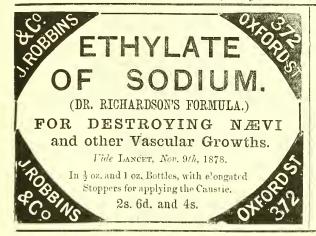
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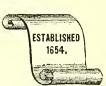
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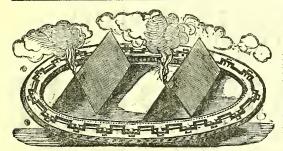
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In the following Combinations, viz.:—

TROMMER'S EXTRACT OF MALT with Hops.

TROMMER'S EXTRACT OF MALT with Cod-Liver Oil.

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PREPARED BY-

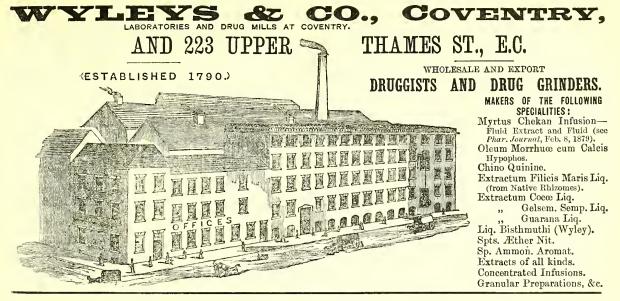
TROMMER EXTRACT OF MALT COMPANY, FREMONT, OHIO, U.S.

From "THE LANCET," January 25, 1879.

"We find that this extract converts starch into glucose and dextrine rapidly and in large quantity. In flavour it is excellent, and we have therefore no hesitation in praising it highly."

SOLE WHOLESALE AGENTS-

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BATTLEY'S

Liquor Opii Sedat., Liquor Cinchon. Cord., Liq. Cinchon. Pallid., et Liquor Secalis Cornuti.

Messrs. BATTLEY & WATTS

(Successors to the late RICHARD BATTLEY, and the only makers of his Liquors)

Caution the Public against using any Preparations under the above name, unless the autograph o "Rich. Battley" is over each Cork and on the Label attached to each Bottle, without which none is genuine The above are only prepared at the Laboratory, Cripplegate, London, by Battley & Watts.

The following Paper by HENRY DEANE, F.L.S., and HENRY B. BRADY, F.L.S., was read, amongst others, at the Bath Meeting of the British Pharmaceutical Conference, September 1864:—

LIQUOR OPII SEDATIVUS.

The striking appearance resulting from the evaporation of Battley's Sedative (Plate III., Fig. 1) first drew our attention to the mode of investigation now described. We have examined it frequently and always have met with the same characters. The slides present an almost opaque mass of crystals of morphine salts and codeine, with a very small portion of narcotine (and meconic acid?), and so far as we have observed, complete absence of resinous matter and narceine. Anyone who has studied the microscopic characters of this preparation will readily understand how it has kept its place with the profession in spite of the cheap imitations which have been so largely purplet as substitutes for it. Though we have experimented much with a view to preparing a similar liquor, we have not yet arrived at an identical result. Of three makes which we have examined, one (Plate III., Fig. 5) is largely charged with resinous matter, and the proportion of crystalline constituents is so minute that we are satisfied its activity must be very small; another (Plate III., Fig. 4) gives a few morphine crystalis, a good deal of narcotine, and more narceine; a third (Plate III., Fig. 6) is chiefly remarkable for its lack of everything crystalline.

32 Lower Whitecross Street, Cripplegate, London.

BARRON, SQUIRE & CO.

(LATE DREW, BARRON, & CO.),

WHOLESALE & EXPORT DRUGGISTS, BUSH LANE, LONDON, E.C.,

MANUFACTURERS OF ALL DESCRIPTIONS OF PHARMACEUTICAL PREPARATIONS, Beg to inform Merchants, Shippers, &c., that all Indents entrusted to them will receive careful attention and prompt execution.

Messrs. B., S. & Co. request the attention of their friends and the Trade, at home and abroad, to their having PURCHASED THE BUSINESS of Messrs. JAMES BASS & SONS, Hatton Garden, and with it the various Formulæ from which their Special Preparations have been made, and pledge themselves to supply them in all their integrity.

Specimens of these Preparations have remained in the Museum of Kew Gardens during 23 years without deterioration.

GOLD MEDAL, PARIS, 1878.

L H. SMITH

EDINBURGH & LONDON.

SALTS OF MORPHIA, PURE CHLOROFORM,

Of absolute guarautecd purity, and not floury. TRIPLY CRYSTALLISED.



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Refiners, Assayers, and Metallurgical Chemists.

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PERSONALLY PREPARED BY THE INVENTOR.

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LIQUOR BISMUTH:
Carefully Purified from Arsenic, Copper, Silver, &c. (DOSE, 3j., diluted.) SYRUPUS CINCHONÆ ALCOHOLICUS
BARK MINUS WOODY FIBRE (Dose, 3ss.. to 3j.)

Drachm contains the entire medicinal properties of 20 grains of finest Chinchonæ Bark.

PILULES OF MONOBROMIDE OF CAMPHOR Containing respectively 2, 3, or 4 grains of "Monobromide of Camphor" in each.

MANUFACTURED IN THE LABORATORY OF

TOWERZEY, SCHACHT and And to be obtained of all WHOLESALE DRUGGISTS in LONDON and the PROVINCES.

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EXTRAC

PROFESSOR ATTFIELD, Ph. D., F.C.S. (Professor of Chemistry to the Pharmaceutical Society of Great Britain, Nov. 1872), writes:—"Evans's Extract is incomparably more valuable than any preparation of malt hitherto offered to the Public."

PROFESSOR TICHBORNE writes:—"Other preparations of this class which I have examined, on evaporation yielded only 36 grains of extractive to the fluid cunce, whilst yours contains 10.5 grains."

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Malt with Quinine and Iron, Pepsinc, Parrishes' Chemical Food, Hypophosphites, Cod Liver Oil.

EXTRACT OF MALT—"EVANS'S" possesses the power of producing a perfect emulsion with Cod Liver Oil, and in this state the taste of the Cod Liver Oil is more perfectly concealed than can be accomplished by any other known process.

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Chemist to H.R.H. the Prince of Wales, H.R.H. the Duke of Connaught, and His Grace the Duke of Marlborough, K.G., 49 DAWSON STREET, DUBLIN, & QUINSBOROUGH ROAD, BRAY, IRELAND. London Agents: NEWBERY & SONS, 37 NEWGATE STREET. Agents in United States: J. WYETH & BROTHER, PHILADELPHIA.

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White Gutta Percha for Stopping Teeth, in 6d. and 1s. Boxes.

Medicated Pessaries, Suppositories, and Bougies, prepared with either Cacao Butter or Gelatine.

DUNCAN, FLOCKHART & Co.'s shape—the Minié bullet—approved by the Medical Faculty throughout the country.

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Beg to direct the attention of Buyers to their superior Manufactures of Concentrated Infusions, Concentrated Decoctions, Extracts, Expressed Juices, Liquors, Tinctures, and Wines.

The GENUINE SYRUP of "EASTON'S" SUPERPHOSPHATE of IRON, QUININE, & STRYCHNINE.

Pronounced by the highest Medical authority to possess tonic powers far exceeding all other preparations. Medical Men when ordering will oblige by writing "EASTON'S SYRUP (CURTIS)".

LIQUOR SECALIS (CURTIS).

Prepared by the authority of the late President of the Obstetrical Society in 1859. Still maintains its character as a most reliable preparation of Ergot.

OR HEALING POWDER, for Burns, Ulcers, Eruptions, Abrasions of Tender and Irritable Skins. A preparation which has for years stood the test of Medical experience, as possessing healing Properties of the most marked and rapid character.

Sold at 1s. 12d., 2s. 9d., 4s. 6d., 9s., and 18s., by all Chemists, Druggists, &c., throughout the World.

LONDON, ${f EDINBURGH}$ AND

And all Products from Opium:

Answering all the Tests of the British Pharmacopæia.

Is extensively used in the Hospitals and by Private Practitioners, and is rapidly superseding the expensive Alcoholic Preparation.

MAY BE HAD FROM ALL THE WHOLESALE HOUSES, AND AT

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"An acknowledged Success, as certified to by numerous Testimonials."

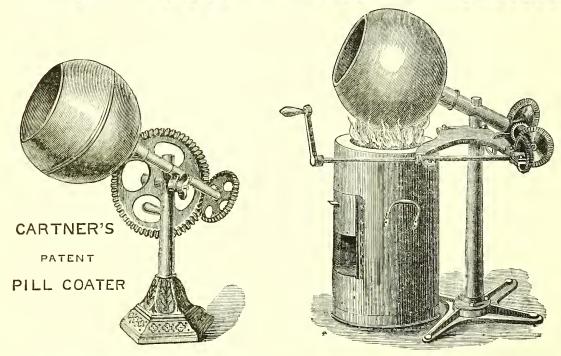
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NEWLY IMPROVED

PATENT PILL COATERS,

For the Counter or Warehouse, Hand or Steam Power, with Formulæ and Circular of Instructions for

PEARL AND SUGAR COATING.



THESE MACHINES—an original invention, and lately patented—are a simple mechanical contrivance by which a perfectly regular rotary motion is given to the Pills. They have been in use some time in the manufacture of small and large quantities, and are guaranteed to Coat Pills equal to any ever offered to the public. They may be seen in operation, but there is no difficulty in using them. They are in various sizes for the counter or warehouse, and to coat from a quarter of a pound to a hundredweight. Those for the counter are somewhat an ornament. They are moderately priced, liked by all who have had them, and are a great acquisition to the Chemist, retail or wholesale; indeed, from the increasing use of "Coated Pills," are a necessity to every Chemist, and no better or cheaper article of the kind can be had. Directions accompany each Machine.

PRICES: No. 1 to Coat up to 1 lb. £1 5 0 No. 3 ,, , 3 lb. £3 3 0 No. 5 ,, , 12 lb. £5 5 0

CAUTION.—Any infringement of my Patent will be rigorously prosecuted. Purchasers are hereby cautioned.

TESTIMONIALS.

I have tried your "PATENT PILL COATER" with a success much greater than I expected. My first attempt with Pil. Rhei. Co. 1 lb. quite astonished me. In about ten minutes they were finished almost equal to the best I have seen. With a little practice I see no reason why a novice should not be able to produce a perfectly Coated Pill at a cost of almost nothing.

[A sample of Pills coated by Mr. Bolton is available for inspection.]

JOSEPH H. BOLTON.

I am pleased to inform you that the "PATENT PILL COATER" I purchased of you a fortnight ago answers admirably, the Pills coated by it being equal to any I have ever had. With my first trial I was pleased, and, after using it the third time, I found it surpassed my greatest expectations. I have no doubt it will soon he found in the establishment of every chemist and druggist.

W. KING.

Your "Patent Pill Coater" is such an acquisition that I would not be without it. Coating is such an improvement, that I am surprised chemists have been so long and are so slow in adopting it fully. Nothing could be more satisfactory than your invention.

H. HOOD.

I beg to recommend Mr. Cartner's "PATENT PILL COATER" as the most perfect article of the kind. I have tried numerous arrangements, but none to equal it in any way. It is a neat, convenient, and reasonably priced machine, and coats beautifully.

A. C. SIMPSON.

A WHOLESALE FIRM writes:—We have tried your "PATENT PILL COATER" with fair success, and heg you to send us a larger size; and, if this answers as well, may take a larger still.

To be had of any of the Wholesale Sundries Houses.

COLLIS **BROWNE'S** Dr. J.

ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

presenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published.

by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:-

	Apothecaries' Hall,	London.
الشمة	Allen, Hanbury & Co.,	,,
	Baiss Brothers,	•
	Banks & Richards, Birn	mingham.
	Barron, Harvey & Co.,	London.
	Bell, John, & Co.,	,,
	Corbyn & Co.,	
	Cox & Gould,	**
CTK		,,
C. com	Curling & Co.,	21
	Curtis & Co.,	,,
	Davy, M'Murdo & Co.,	,,
1	Drew, Barron & Co.,	**
	Drew, B., & Alexander,	"
	Dunn & Company,	
	Edwards, W.,	23
	Evans, Gadd & Co.,	772
		Exeter.
	Evans, Lescher & Evans	, London.
	Ferris & Co.,	Bristol.
	Foulger, S., & Son,	London.
	Frazer & Green,	Glasgow.

Gale & Co.,	London.
Giles & Son,	Clifton.
Goulding, Messrs.	Cork.
Gratton & Co.,	Belfast.
Grimwade, Ridley,	London.
Grindley & Son,	Chester.
Hearon, Squire & Francis,	Lendon.
Hodgkinson, Tonge & Stead	, ,,
Hopkins & Williams	,,
Hunt & Co.,	Exeter.
Hunt, A., & Co.,	••
Johnson, J. H. & S.,	Liverpool.
Langton, W., & Co.,	London.
Lynch & Co.,	
	rhampton.
Marsden & Sons,	London.
Maw & Son,	
Meggeson & Co.	,,
	dinburgh.
Morson, T., & Son,	London.

Newbery & Sons,	\mathbf{London}_{\sim}
Oldham, G., & Co.,	Dublin.
Parsons & Richardson,	Leicester.
Peake, Allen & Co.,	Dublin.
Raimes & Co.,	Liverpool.
Raimes & Co.,	York:
Raimes, Blanshards &	Co., Edinburgh
Sang & Barker,	,
Sanger, J., & Sons,	London.
Sim, James, & Co.,	Aberdeen.
Smeeton, W.,	Leeds.
	Birmingham.
Sutton, W., & Co.	London.
Tomlinson, Hayward &	Co., Lincoln.
Treacher, Hodgkinson	
Westrup, J. B.,	Kensington.
Westwood & Hopkins,	
Woolley, James,	Manchester.
Wyleys & Brown,	Coventry.
Yates & Co.,	London.

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

T. DAVENPORT, Pharmaceutist.

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These Pills have for long years been a favourite remedy for Bilious and other disorders arising from obstructions of the Liver and disarrangements of the Digestive Functions. They are much prized by residents abroad, especially in Italy, the Cape, and Prepared only by G. MARSHALL, M.P.S., Accrington, who has been Sole Proprietor for the last 18 years. the Colonies. Boxes, 1s. 11d., 2s. 9d., and 4s. 6d. Be sure to order Cooper's ANTIBILIOUS Pills.

ROBINSON'S MEDICATED COTTON WOOL.

Purchasers of this valuable article should see that they get the genuine, which bears on the label facsimiles of M. ROBINSON and of the Sole Proprietor,

F. MARSHA Accrington.

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CHILDREN'S COOLING, SOOTHING, AND TEETHING POWDERS

Are admitted by all who use them to be the best for safe, easy, and quick teething. These powders have been used a great many years for children when cutting their teeth, or affected with convulsions, fevers, thrush, colds, eruptions, or almost any ailment whatever. They have saved thousands from their graves. Give them a trial. In boxes, at 1s. 1½d. and 2s. 9d. A great saving in the 2s. 9d. boxes.

NUTTALL'S PATENT VEGETABLE PILLS

Are acknowledged to be the best family medicine known. This fine medicine is a direct purifier of the blood, good for indigestion, pain in the stomach, as fulness after meals; faintness, heartburn, stomach, liver, and Ridney complaints; blotches of the skin, coughs, colds, bronchitis, and influenza, lowness of spirits, &c. They are wonderfully adapted for females of all ages. A gentle but effective tonic made genial to the taste. These pills are of great advantage to emigrants in preventing sea sickness.



Sold by all Chemists and Patent Medicine Dealers, in boxes, $9\frac{1}{2}d.$, 1s. $1\frac{1}{2}d.$, and 2s. 9d. each, or from the Proprietors, C. NUTTALL & Sons, Bacup, near Manchester.

"FOR THE BLOOD IS THE LIFE."

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Wholesale of all the Wholesale Houses, at 24s. and 108s. per dozen, less the usual discount.

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DINNEFORD'S FLUID MAGNESIA.



PERFECT IN PURITY AND UNIFORM IN STRENGTH.

Sold by all Wholesale Druggists, and by the Manufacturers,

DINNEFORD

Chemists. Pharmaceutical

180 NEW BOND STREET, LONDON.

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Messrs. J. LLOYD BULLOCK & CO.

Beg to direct the attention of the Profession to the Experiments upon "Medicinal Pepsine" by Professor Tuson, recorded in the Lancet, August 13th, 1870, which incontestably prove the very great superiority of their Preparation in point of digestive power over every other Pepsin, British or foreign, a pre-eminence maintained to the present time. Dose-two to four grains.

A copy of Professor Tuson's Paper will be forwarded on application.

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TRADE MARK.—SANCTIONED BY HER MAJESTY'S GOVERNMENT.



Protected under the Trade Marks Act (38 & 39 Vict., chap. 91. Enacted by the "Queen's Most Excellent Majesty," 20th August, 1875.

DLEASANT to the Taste. The only Safe, Prompt, and Reliable PHOSPHORIC REMEDY for Overworked Brain, Worry, Anxiety, Excitement, Late Hours, Business Pressure, Nervous Prostration, Wasting Diseases, Asthmatic, Consumptive, Stomach, and Liver Complaints, Impaired Nutrition, Impoverished Blood, Premature Decline, and all Morbid Conditions of the System dependent upon the deficiency of Vital Force.

Purifies and Enriches the Blood; Clears the Skin; Thoroughly Invigorates the Brain, Nerves, and Muscles; Re-energises the Failing Functions of Life, and thus Imparts Energy and Fresh Vitality to the Exhausted Nervo-Electric Force; and Rapidly Cures every form of Nervous Debility, Paralysis, Nervous, Mind, and Heart Diseases, from whatever cause.

IMPORTANT TO EUROPEANS VISITING OR RESIDING IN HOT CLIMATES.

PHOSPHODYNE has an enormous Sale in India, China, Africa, and other Hot Climates, from its possessing in the most perfectly assimilable form the essential Vitilising properties of PHOSPHORUS, which re-animates the Exhausted Functions of Life when impaired by Heat or other causes. A very large number of Testimonials, from all parts of the World, freely offered from private persons, Scientific and Professional Men who are well known, speak of its marvellous powers in Nervous Debility, WANT OF STAMINA, FEVERS, MALARIOUS DISEASES, and as a LIVER TONIC.

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BY ALL EXPORT, WHOLESALE, AND RETAIL MEDICINE VENDORS.

CAUTION.—The name, Dr. Lalor's Phosphodyne, is blown in the glass of each bottle, and the Genuine Phosphodyne is manufactured only at Dr. Lalor's Laboratory, London, England. Medicine Vendors are hereby warned that Legal Proceedings will be taken against all Persons selling the Fraudulent Imitation after this Notice.

IMPORTANT NOTICE.—Every Bottle bears the British Government Stamp, with the words, Dr. Lalor's Phosphodyne, London, England, by Order of Her Majesty's Honourable Commissioners. If not, it is a Forgery.

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Is prepared to Prove the following Facts in any Court of Law in London, England, and he respectfully requests Medicine Vendors and the Public to assist the cause of Truth and Right, against Falsehood and Fraud:

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The Genuine "PHOSPHODYNE" bears the Christian, Surname, and Address as above; also the Registered Trade Mark, "PHOSPHODYNE," to copy which is Felony.

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BATHGATE & Co., Galautta.

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Sold by all Chemists and Patent Medicine Dealers, in Boxes, at 72d., 132d. and 2s. 9d. each; or post free from the Proprietor, ROBERT HENRY LOWE, 187 Bilston Road, Wolverhampton, upon receipt of the price in Postage Stamps. Patent Medicine Vendors supplied with handbills with Name and Address upon receipt of cord as label. Address upon receipt of card or label.

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MRS. WILSON'S FEMALE PILLS.

Price 1s. 11d., 2s. 9d., 4s. 6d. per Box.

A SURE REMEDY FOR ALL FEMININE AILMENTS.

They have a large and increasing sale, and wherever introduced are eagerly sought after and always recommended.

AGENTS WANTED IN DISTRICTS NOT REPRESENTED. Liberal Discounts. Very Saleable.

Show Cards, Counter Bills, with Agent's name. Apply at once.

N.B.-First Parcel carriage paid, on sale or return. CAUTION .- Makers and Sellers of Imitations will be prosecuted.

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Loeflund's Malt Preparations have obtained First Prizes at the Exhibitions of Paris, Moscow, Vienna, Philadelphia, and elsewhere. They are superior to all others placed in the market, being evaporated in vacuo and concentrated to the necessary thickness; they perfectly retain the pure and mild taste of the Barley Malt, and may be exported to any climate without risk of deterioration or fermentation.

LOEFLUND'S EXTRACT OF MALT, pure and concentrated (2s. 6d. per bottle, stamp included)

For Coughs, Colds, Sore Throat, Asthma, &c.

LOEFLUND'S EXTRACT OF MALT, with PYROPHOSPHATE OF IRON, contains 2 per cent. of the Pyrophosphate (2s. 9d. per bot., stamp included), For Chlorosis and Anæmia.

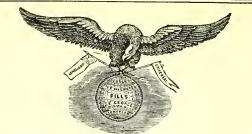
LOEFLUND'S EXTRACT OF MALT, with HYPOPHOSPHITE OF LIME, contains 2 per cent. of the Hypophosphite, 2s. 9d. per bot., stamp included),

For Rickets and Diseases of the Lungs.

LOEFLUND'S EXTRACT OF MALT, with COD LIVER OIL, an Emulsion consisting of equal parts of Extract of Malt and best Norwegian Cod Liver Oil (2s. 6d. per bottle, stamp included),

For Scrofulous & Weakly Persons, especially Children. All these Preparations are filled in 10-oz. Bottles.

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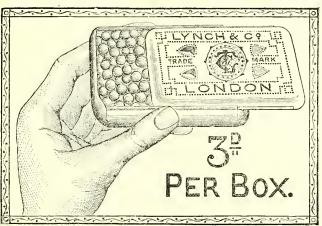
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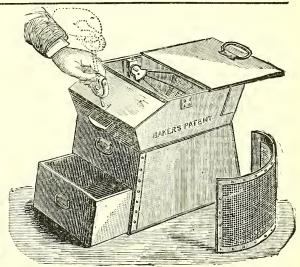
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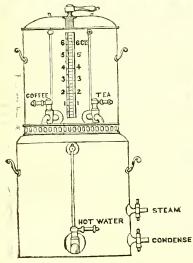
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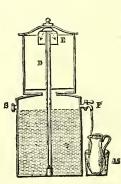
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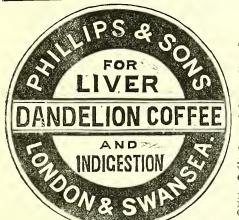
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OTHER AERATED WATERS.

Prepared with scrupulous care as to chemical accuracy, and with the Natural Spring Water of Brighton, the Purest in the Kingdom.

JOHN CHALLONER SONS. X. MINERAL WATER MANUFACTURERS.



PROVIDENCE PLACE. BRIGHTON.

AGENTS WANTED.

PURE AERATED WATERS.

MANUFACTURED BY

T. & F. J. TAYLOR, NEWPORT PAGNELL. ESTABLISHED 1835.

Purity and Excellence of the Water certified by Analysis by PROFESSOR ATTFIELD, Ph.D., F.C.S.

NEWPORT PAGNELL SODA WATER, containing 10 grains of Bicarbonate of Soda in each bottle.

AERATED WATER, without Alkali.

POTASH WATER, containing 10 grains or 20 grains of Bicarbonate of Potasb in each bottle.

LITHIA AND POTASH WATER.

SELTZER WATER, prepared according to Analysis of the

EFFERVESCING LEMONADE. superior in flavour colourless, and warranted to retain its brilliancy.

Each Bottle is protected by a Label bearing the Signature of the Firm.

BINGLEY'S



SODA WATER. SELTZER. POTASH. LEMONADE. LITHIA, &c.

MANUFACTURED BY

JOHN BINGLEY, Pharmaceutical Chemist, NORTHAMPTON.

A copy of Professor Attfield's Report will be forwarded by post on application.

PARNELL'S CHALYBEATE SALINE.

AN AGRICABLE COOLING FEBRIFUGE AND TONIC APERIENT EFFERVESCENT SALT, BEING A CHALVEEATE WATER IN A SOLID FORM.



Mark

To be obtained in Bottles, 2s. 6d., from SANGER & Co., NEWBERY & SON, and all Wholesale and Retail Chemists, and from

26 BUCKINGHAM PALACE ROAD, S.W. Show Cards and Hand Bills sent free on application.

Paris Agent - M. SWANN, Rue Castiglione.

Gold Medal, Paris Exhibition.

FRY'S COCOA EXTRACT,

IN PACKETS AND TINS.

Pure Cocoa only, with the superfluous oil extracted.

This pure and delicious Cocoa, consisting exclusively of choice Cocoa Nibs from which the superfluous oil has been extracted, is strongly recommended to all who appreciate the full flavour and fine aroma of Cocoa.

"If properly prepared, there is no nicer or more wholesome preparation of Cocoa."—Food, Water, and Air, Edited by Dr. HASSALL.

J. S. FRY & SONS, BRISTOL & LONDON.

TRY ALSO

FRY'S CARACAS COCOA.—" A delicious preparation.

CHEMISTS' TEA AGENCY.

BROKEN-LEAF TEA, 1s. 8d. per lb.

A Money-saving Tea, absolutely pure, in half-pound packets 10d. The small leaf from fine India and China Teas, stronger, richer, and cheaper than any whole-leaf tea. Wholesale to Dealers and Sellers and Agents 40 lbs, sent free to any railway station in the kingdom.—WALKER & DALRYMPLE. Warehouses—154 and 155 Whitechapel Road, London. P.O.O. payable at Head Office. Bankers—The National Provincial Bank of England. N.B.—Samples posted free.

W. S. YATES,

Chemists' Shop Fitter, Shop Front Builder, and Glass Show Case Maker.

PLANS AND ESTIMATES SUPPLIED FOR WORK IN ANY PART OF THE KINGDOM.

9 CAMDEN STREET LIVERPOOL.

LA TROBE'S PURE SOLUBLE COCOA.



Supplied to Chemists only, all other Trades refused.

H. L. T.'s production stands entirely upon its own merits, as the Purest Cocoa manufactured.

That the Trade may have an opportunity of testing, H. L. T. sends samples for gratuitous distribution amongst the medical profession upon receiving from Agents a list of same.

Retailed in Canisters,

1s. and 2s.

<u>La Trobe's</u> Pure Soluble Cocoa.

Also Manufacturer of

La Trobe's Highbury Bouquet,

La Trobe's Constitution Powder, La Trobe's Cough Lozenges,

La Trobe's Plate Powder.

Price List, with Terms, on application to

H. LA TROBE, COTHAM, BRISTOL.

SPECIAL NOTICE TO DRUGGISTS.

Increase your Business by Selling the

ORIENTAL COMPANY'S TEA.

In submitting their Teas to Agents, the above-named Company desire to offer the following remarks:-

THE PROPRIETORS have been long connected with the East, as Import and Export Merchants, and, with the means at their command, are enabled to avail themselves of their experience in purchasing at the proper season, from the best markets, and direct from the Tea Planters, thereby securing the choicest pickings, and saving all intermediate profits between producer and consumer.

THE TEAS being thus bought are carefully cut, sifted, and mixed by the most improved machinery, under the superintendence of a Practical Teaman, whose whole study has been devoted to the Art of Blending Teas to suit the Tastes of the general public; and it may be added that it is greatly due to judicious blending that the Company's Teas have acquired the position they now hold.

Indian Teas have within the last few years obtained such favour with connoisseurs for Strength, Aroma, and Delicacy of Flavour, that The Oriental Company have introduced, as a Specialty, a blend of these fine Teas, the sale of which has attained such proportions as to warrant the assertion that it produces the most delicious beverage over offered to the public.

THE TEAS are packed in specially-prepared wrappers, with Tinfoil Lining, in \(\frac{1}{4}\)-lb., \(\frac{1}{2}\)-lb., and 1-lb. Packets; 5-lb., 10-lb., and 20-lb. Tins; 20-lb. Boxes, Half-chests, and Chests; and retailed as under.

Fine China 1	Blended	Tea,	Magenta	Label		•••	•••	•••	Retail at	2/0 p	er lb.
Finest ,,	,,	,,	Blue	,,	•••	•••			,,	3/0	,,
Fine Indian	,,	,,	Green	"	•••	•••	•••	•••	,,	2/6	,,
Finest ,,	21	,,	Yellow	,,	•••	•••	•••	•••	,,	4/0	,,

For Terms of Agency and other particulars apply at the Office-

418 OXFORD STREET, LONDON, W.

J. B. LAMBE & Co. desire to draw the attention of LICENSEES of PATENT STOPPERED BOTTLES to their



SEALS.

SHORT RECKONING MAKES LONG FRIENDS.

OF WHICH THEY ARE THE ORIGINAL MAKERS.

The Article is made of good stout Cardboard, while the Mottoes are numerous and varied, and packed carefully in Boxes of 5,000 each.

These Seal Mottoes are a great convenience, strengthening the cap label, and keeping the lips of the bottle free from dirt.

A Large STOCK is kept, and Orders can be supplied immediately on receipt.

LIST. PRICE

9d. per 5,000 1,000. 25,000 8d. 99

100,000 6d.

Special Quotations for Larger Quantities. Samples will be sent on Application.

MANUFACTURERS OF EVERY DESCRIPTION OF LABELS, SHOW CARDS, &c., SUITABLE FOR THE TRADE.

CHROMO-LITHOGRAPHERS & GENERAL PRINTERS,

Established 1857.7

GRANULAR

This perfectly white and delicately cleau Preparation,



Prepared with Salts obtained from Pure Fruit Juices of Lemons and Grapes,

Is the most delicious of all the effervescent driuks which have been offered to the public since Mr. ALFRED BISHOP first invented this combination in 1857. It may be taken with perfect safety all the year round, and, besides being a most refreshing heverage, it cools the blood and acts as a mild aperient. It is now prescribed by thousands of physicians as the pleasantest and most efficient aid to PERFECT HEALTH; and an imitation of the product has been introduced into the British Pharmacopeia by the General Medical Council.

It is the hest and purest draught which can be taken as a morning restorative, while for delicate persons and young children it is invaluable as an alterative. It ensures a regular action of the skin and of all the organs of the hody, and thus invigorates the system instead of exhausting it, as is the case with more violent medicines.

The best chymists in Great Britain and the Colonies keep no other "Granular Effervescent Citrate of Magnesia" than "Bishop's." The reason for this universal preference is that, since its introduction in 1857, it has been found that none of the Imitations of this preparation, originally introduced by Mr. Bishop, have been able to compare with it in reliability as a medicine, or in purity and freshness of flavour as a cooling drink. Full directions on each hottle.

DR. REDWOOD, Professor of Chymistry at the Pharmaceutical Society of Great Britain, thus writes:—"I have examined a great many samples of Mr. Bishop's granulated preparations, obtained at various times and from different sources, and have found them to he very uniform in character, fully charged with Carbonic Acid, and obviously made with great care and accuracy."

An old Correspondent writes:—"I have never found your Citrate of Magnesia injurious to health; on the contrary, I should be sorry to be without it.

I have used it now for nearly twenty years, and take a teaspoonful every morning in a glass of cold water. I require no other medicine."

Sold by all Chymists, in Bottles, at 1s. and 2s. 6d.

Established 1857.7

Established 1857.

Contains cight grains of this admirable anti-febrile salt in each drachm, keeps well, and yields a delicious effervescent draught. more economical, and more convenient than the ordinary alkaline waters, and much superior to the various mixed powders, which consist mainly of Tartrate of Soda.

A customer writes: - "It is the nicest effervescing preparation I have ever tasted, and is infinitely pleasanter than the hottled waters."

DR. G. O. DREWRY, in his "Common Sense Management of the Stomach," recommends for Indigestion, Constipation, &c., the "Granular Effert Stomach," recommends for Indigestion, Constipation, &c., the "Granular Effert Stomach," recommends for Indigestion, Constipation, &c., the "Granular Effert Stomach, and Cooling laxative, when taken in doses of one dessert spoonful in half-a-pint of water before breakfart. before hreakfast. Observe that the Name, Trade Mark, and Address of the Maker is on each Bottle.

ALFRED BISHOP, Chymical Factory, Speck's Fields, Mile End New Town, LONDON.

BISHOP'S EFFERVESCENT PORTABLE MINERAL WATER SALTS, of Carlshad, Seltzer, Pullna, Vichy, Lithia, &c. Far more convenient, and much more economical, than the bottled waters. With directions for use.

Sold by all Chymists, in Bottles, at 1s., 1s. 6d., and 2s. 6d.

LAMPLOUGH'S EFFERVESCING PYRETIC SALINE.



HAVE IT IN YOUR HOUSES AND TRAVELS, USING NO OTHER SALINE; it gives instant relief in Headaches, Sea or Billious Sickness, and quickly cures the worst form of Eruptive or Skin Complaints. The various diseases arising from Constipation, the Liver, or Blood Impurities, Inoculation, the results of breathing air infected with Fevers, Measles, or Smallpox, are frequently prevented and certainly cured by its use

the results of breathing air infected with Fevers, Measies, or Shianipos, and the results of breathing air infected with Fevers, Measies, or Shianipos, and the gently increased during the past few years, I beg most cordially to thank those who sell and recommend the same, and also to inform intending dealers that they will find Messrs. Barclay, Edwards, Maw, Newberry, Sanger, Settors, and the Wholesale Houses generally, ready to supply their wants. This Advertisement is found needful in consequence of the tronble, cost, and inconvenience in the keeping and collection of numerous small accounts. Note.—The Name. Trade Mark, Labels, Wrappers, &c., are all Registered and Entered at Stationers' Hall.

113 HOLBORN HILL, LONDON, E.C.

SPECIAL NOTICE.—Medical Gentlemen having fever cases, and desirous of trying the Saline, can have a single bottle at wholesale prices by sending their cards.



MILLS

THE PUREST IN ENGLAND.

MILLS & CO., Manufacturers of the Original BOURNE ARTESIAN AERATED WATERS.

ROURNE SODA WATER, unequalled for its natural Alkalinity.

ROURNE POTASH WATER—a Special Remedy for Rheumatism and Gout.

LEMONADE—Superior Quality, made from the Fruit.

ROURNE LITHIA WATER—Specific for the Gout. Guaranteed to contain a fixed quantity of Lithia.

BOURNE SELTZER WATER—The natural Alkalinity of the Bourne Artesian Well Water, combined with Artificial Salts, produces one of the best articles made.

This Seltzer Water is well adapted for invalids for its purity. When taken at dinner-time, it promotes digestion. Early in the morning, slightly aperient.

R. M. MILLS & CO., MANUFACTURERS, BOURNE. Messrs. Padgett & Son, Wine Merchants, 27 Motcombe Street, and Messrs. Hardy & Co., Chemists. 42 Fenchurch Street, corner of Mincing Lane, Wholesale Agents, London.

And their appointed Agents throughout the Kingdom.

J. H. CUFF'S MINERAL WATERS,

Atkinson St., Deansgate,

MANCHESTER.

SODA WATER SELTZER WATER POTASS WATER 15 grs.

LEMONADE GINGER ALE LITHIA WATER 5 grs.

LITHIA WATER WITH POTASS. QUININE TONIC WATER, &c., &c.

SENT IN BIN CASES. NO PACKING REQUIRED.

Carriage paid on 12 Doz. assorted, or 6 Doz. of one kind. Priced Lists free on application.

DISCOUNT ACCORDING TO QUANTITY.

SPECIAL TERMS FOR EXPORT ORDERS.

Attention is directed to Cuff's Soda, Seltzer, and Potass Waters, and Ginger Ale (the latter a speciality), all of which command a very extensive and ready sale.

Cuff's Waters are prepared expressly for a High-class Family Trade.

EUGENE GERAUT & CO.

NEW PATENT LEVER SELTZOGENES.

For the immediate production of Ean de Vichy, Soda Water, Sparkliug Lemonade,
Aërated Waters.
First introduced by Ergene Geraut & Co. in 1853.

First introduced by EUGENE GERAUT & Co. in 1853.
3-pint, wire, 13/; 5-pint, wire, 18/; 8-pint, wire, 30/.
Cane covered, 3-pint, 6d.; 5-pint, 1/; 8-pint, 2/each extra.
Strongly silver-plated top, 5/ each extra.
3-pint size,
strongly silver-plated, richly decorated porcelain stands,
30/ each; 5-pint size, ditto, ditto, 38/ each; 8-pint size,
ditto, ditto, 48/ each.
Our well-known Seltzogenes are improved yearly, and have
already stood a public test of upwards of Twenty Years,
and are acknowledged as THE VERY BEST.
POWDERS FOR THE ABOVE: "Subject.-3-pint, per dozen
boxes, 22/; 5-pint, ditto, 35/; 8-pint, ditto, 65/.
LIBERAL DISCOUNT FOR LARGE QUANTITIES.

1 \$- 9 COPPDOR ATION RUILINIUMS

1 & 2 CORPORATION BUILDINGS, FARRINGDON ROAD, LONDON, E.C.

SYPHONS.

IMPORTANT NOTICE.

Great Reduction in Price.

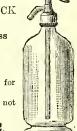
Clear or coloured glass, pure ENGLISH BLOCK TIN TOPS, with piston or cap.

22/6 per dozen, for quantities of not less than one gross.

25/ per dozen, for less than one gross. Packing in Cask, 5/ per gross.

The Name marked on the metals free of charge for quantities of not less than one gross.

The Name engraved on the glass for quantities of not less than one thousand, 2d. each extra.



TO

ADVERTISEMENTS,

See pages 89, 79.

HOT WEATHER! DRINK AND WHAT TO

MORE OR LESS SPECIFIC ANSWER TO WHICH QUESTION will certainly throughout the coming summer not unfrequently be desired of Chemists by their customers, especially in sca-side towns, where, to the visitors thereto, it commonly happens' that the change of air and water, supplemented vory frequently by undue exposure to solar heat, renders the possession of a perfectly wholesome and corrective retrigerant remedy a decided desideratum, and for the proper fulfilment of which requirement we venture to think it will be readily allowed that the use of the ordinary effervescent compounds are utterly unfitted and unscientific, possessing, as they uniformly do, the double disqualification of alkalinity and more or loss of purgative property.

"Acting as a purgative by occasioning a considerable discharge of serous fluid into the intestines, which effect when often repeated occasions debility of the digestive organs, and consequent emaciation."—Dr. Paris.

Before, therefore, recommonding for more than very occasional use effervescent preparations of the class uniformly composed of Tartrate of Soda with varying proportions of Sulphate of Magnesia, &c., the fact should never be lost sight of that they exert also a powerfully alkaline effect, which, when for some time continued, most certainly impairs nutrition by causing a serious loss of coagulable power in the blood-a depravation, it will be unnecessary to remark, especially typical of scurvy and other vitiated

It will, therefore, we think, be sufficiently obvious that the novel combination of the salutary principle of lime fruit—to the entire exclusion of Tartaric Acid—with effervescent properties unalloyed by the usually excessive alkalinity, for the first time

supplied in

LIME JUICE SALINE

is such as to render it a general domestic remedy of prime importance, whether it be had recourse to for its gratefully refrigerant and prophylactic properties, or for the more specifically alterative and antiputrescent action of its constituent Lime Juice, which, being furthermore supplemented by the valuable therapeutic agency of Nascent Oxygen derivable from its potassic component, leaves nothing to be desired to render it physiologically correct as a remedy in the numerous cases where, from imperfect oxygenation consequent upon excessos in diet or unsanitary conditions of life, the blood has become charged with fermentible carbonaceous matters—a condition it is needless to observe always provocative of functional derangements, as well also as it offers a favouring nidus for the reception and development of zymotic diseases.

NOTICE TO THE TRADE.

By the introduction of WENHAM'S LIME JUICE SALINE to the notice of their Customers (which from its unique and attractive appearance it itself effects when displayed upon the counter), Chemists have the opportunity of considerably augmenting their returns by the sale of this entirely novel and elegant preparation, which to enumerate some of its advantages

Possesses in a complete and portable form the valuable anti-scorbutic, alterative, and general healthful properties of Lime Juice and Potash;

Rendering it in the highest degree a once palatable, refreshing, and health-sustaining;

Which, with a total absence of qualities whereby its range of usefulness can be limited, as in the case of purgative and obviously weakening Tartrates of Soda, &c.,

Supply important ortant desiderata that, considered in with the unapproached intrinsic value connection of the article,

Amply warrants the assumption of its obtaining the decided approval of the Public wherever introduced.

IMPORTANT TO SHIPPERS.

LIME JUICE SALINE has most successfully been introduced with a view to obviate the difficulty of obtaining really reliable Lime Juice under any but very exceptional circumstances. In the condensed form, now for the first time presented to the public, the difficulties attendant upon its use and transport in the liquid condition are wholly obviated; and by a combination of the most recherché qualities, together with an entire freedom from the lowering effects of ordinary saline compounds, a remedy is proviled which requires but a single trial to offer the most convincing proofs of its immense usefulness.

"21 Eccleston Square, S.W.
"September 12th, 1878.

"Gentlemen,—Should Lime Juice be proved to be an efficacious remedy for Scurvy, the palatability and 'realiness for use' of your prepa-ration will render it invaluable in all future Arctic Expeditions.

"I am, Gentlemen, very truly yours,

"A. H. MARKHAM, Captain R.N."

Captain A. H. MARKHAM was Commander of H.M.S. Discovery in the recent Arctic Expedition.

"35 Baker St., W., July 9th, 1878.

"DEAR SIRS,—I think your Effervescent Lime Juice Saline is well made and should become very popular as a contribution to 'Elegant Pharmacy, as well as a cooling beverage during the heat of summer. You will be pleased to hear that we have just sent a consignment of it to H.M.S. Monarch, Cyprus.—Yours faithfully,

"A. W. POSTANS, F.C.S."

"Troop Steamer, Dublin Castle, Cape Town, 15th March, 1879.

"Dear Sirs,—In the hurry of embarkation, on 19th of last month, at Gravesend, I bad not time to thank you for the box of Effervescent Lime Juice Saline you so kindly placed at my disposal, for use of officers and men embarked for the Cape. I now do so, and can testify to its having proved a boon to those who felt in any way indisposed, especially to those suffering from sca-sickness. The demand for it was so great that your liberal supply soon vanished. I can safely say, from personal experience during voyage, that it is not only most refreshing, but also tends to allay sea-sickness, and I am sure would be also useful in febrile diseases.

"Accept my thanks, please."

"(Signed). FDW I POULTON Surgeor Maior."

" (Signed) EDW. J. BOULTON, Surgeon Major." "Aylesbury Pharmacy, 11th Nov., 1878.

"Messrs. Wheeler & Co., I sold out of your L. J. Saline on Monday last, and have got in a fresh supply, which makes my third case. I lately recommended it to a gentleman, who was so especially pleased with it that, upon the occasion of his purchasing a second bottle, he assured me that he should spare no pains to make known its virtues amongst his numerous friends. From the trial, therefore, which I myself have made, and the testimony I have received from my customers, I can confidently affirm it to be the best preparation before the public or the trade.

I am, Gentlemen, yours faithfully, JOHN TURNER." I am, Gentlemen, yours faithfully,

"Royal Hotel, Durban, Natal, 20th March, 1879.

"Gentlemen,—I intended posting you this when at Cape Town, but we were so suddenly ordered on here that I bad not the opportunity of doing so until we reached Durban.

"I am greatly indebted to you for many a refreshing draught during the voyage; indeed the Lime Juice Saline was so popular with all ranks and classes on board that a considerable sum could have been realised by its sale ou board the Dublin Castle, and I only regret that it is not to be procured here, as I should be very glad to possess a supply on my departure to-morrow to join Colonel Wood's column.

"(Signed) WM. SMITH COX, H.M. Ordnance."

In Bottles, 2s. 6d. and 4s. 6d. each; Cases for Export, 21s. Sole Manufacturers (Registered), & SOUTHEND-ON-SEA HEELER & CO., LONDON

AGENTS.—Calcutta, Messrs. Bathgate & Co.; Bombay, Messrs. Treacher & Co.; Simla and Lahore, Messrs. E. Plomer & Co.; Allahabad, Mr. J. L. Lyell; Melbourne and Wellington, Messrs. Felton, Grimwade & Co.; Sydney and Brisbane, Messrs. Elliott Brothers; Dunedin, Auckland, and Christchurch, Messrs. Kempthorne, Prosser & Co.; Port Elizabeth, Messrs. N. Adler & Co.

CHEMISTS' SPECIALITIES

SPARKLING, NON-ALCOHOLIC, PHOSPHATED IRON BEVERAGE.



BRAIN AND NERVE TONIC AND NUTRIENT TONIC BEVERAGE.

RECOMMENDED FACULTY. BY THE

ZOEDONE is not a medicine, but a beverage for daily use. It possesses properties combined in no other beverage, having the essential constituents of the BLOOD, BRAIN, and NERVE TISSUE. It is agreeable to the palate, pleasant to the eye, and innocent in its action. It is also non-alcoholic. As a dinner beverage it is unsurpassed as an agreeable sparkling drink; especially adapted for the overworked, worried, or anxious; for convalescents it is invaluable.

Every Chemist that has introduced ZOEDONE has found a large and regularly increasing sale for it. It is put up in Champagne Bottles, and there is no trouble with empties, as the bottles are included in the price. Customers supplied with Pamphlets for distribution; also a special Circular for medical men stating the formulæ. Usually orders should be anticipated by one week.

From Mr. WILLIAM LEE, Dispensing Chemist, Castle Northwich.

To Messrs. R. Evans & Co.

Since a medical gentleman recommended me to keep ZOEDONE in stock, it has had the most rapid sale of anything I ever sold. I feel sure it only requires to be known for its sale to become yet more extensive.—Yours truly,

WILLIAM LEE.

From NORMAN KERR, M.D., F.L.S.

42 Grove Road, Regent's Park, London, 15th May, 1879.

ZOEDONE is a most agreeable, refreshing, and elegant tonic. This pleasant sparkling beverage, whilst most acceptable at the social board, is an invaluable adjunct to medicine. NORMAN KERR, M.D.

From T. EYTON-JONES, M.D., F.R.C.S.E.

Grosvenor Lodge, Wrexbam, May 6th, 1879.

DAVID JOHNSON, Esq.

My dear Sir,—You are doubtless aware that I have very recently been confined to my bed with a very sharp attack of Bronchitis and Pleurisy—producing in a fortnight such rapid waste that I could hardly walk across my bedroom without support—the only assistance I have received towards my hedroom without support—the only assistance I have received wwarted my restoration to health, besides ordinary nutritious food, has been your invaluable and excellent preparation ZORDONE. Without being a stimulant, it possesses in the Phosphorus and Iron in an aërated condition the most valuable ingredients required by invalids during convalescence.—Believe me, very sincerely yours,

T. EYTON-JONES, M.D. From the Rev. D. HOWELL, B.D., Vicar of Wrexham. Vicarage, Wrexham, North Wales, March 24th, 1879.

Messrs. R. Evans & Co.,—Your ZOEDONE is incomparably the hest non-alcoholic beverage I have ever tasted. It is used daily in my family. It is refreshing, stimulating, and strengthening. D. HOWELL.

From the TEMPERANCE RECORD, June 5th, 1879. The Beverages at the Medical Dinner.

BY A MEDICAL CONNOISSEUR.

Everyone was struck with the variety and attractiveness of the liquids at the dinner at the "Langham." By universal consent the palm was awarded to ZORDONE, a sparkling, delicious, exhilarating drink, containing phosphates and iron, and an excellent brain and nerve tonic. The patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are "Fortistical to the part of the patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are "Fortistical to the patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are "Fortistical to the patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are "Fortistical to the patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are "Fortistical to the patentee is Mr. Dayid Johnson. E.C.S. and the manufacturers are particular to the palm was awarded to patentee in the palm was awarded to zero and the palm was awarded to zero awarde Mr. David Johnson, F.C.S., and the manufacturers are Evans & Co., Wrexham.

From WILLIAM CARTER, M.B., B.Sc.L.L.B.Lond., M.R.C.S.Lond., Physician to the Royal Hospital, Liverpool, Lecturer on Materia Medica, Liverpool Royal Infirmary School of Medicine.

June 9th, 1879.

I have great pleasure in expressing the high opinion which I have formed of the value of ZOEDONE as a tonic heverage and medicine. It seems to me to meet a decided want, as by its means we are enabled to prescribe the phosphates of iron, lime, &c., uot merely in a very easily assimilable, but as well in a most palatable and refreshing form. I have prescribed it largely, and from my observation of its effects believe it will be of great

use to the profession.
WILLIAM CARTER, M.B., B.Sc.L.L.B.Lond., M.R.C.S.Lond.

Report on the ZOEDONE of Messrs. Richard Evans & Co., of Wrexham.

The Analytical Sanitary Institution, 54 Holborn Viaduct, London, E.C., Sept. 21, 1878.

I have carefully examined the new Aërated Mineral Water manufactured by Messrs. R. Evans & Co., and to which they have given the name of "ZOEDONE." I find the statements made respecting its composition to be fully borne out by the analysis. The "ZOEDONE" is a bright, sparkling, and very pleasant beverage, quite free from medicinal taste; indeed, it forms a most agreeable and elegant vehicle for the administration of the Phosphates of Lime and Iron which it contains, and which are in a complete state of solution. ARTHUR HILL HASSALL, M.D., London,

Author of "Food, its Adulterations, and the Methods of their Detection."

ZOEDONE is supplied direct by us and our Agents on the following Terms, Cash Prices, including bottles and package, free on Rails at Wrexham-6/6 per doz. in half Champagne Bottles (usually sent out in 6 doz. cases). 12/- per doz. in large Champagne Bottles (usually sent out in 3 doz. cases). 6d. per doz. extra for export, packed in casks. Trade Terms on application.

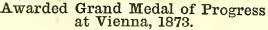
> PATENTEE—DAVID JOHNSON, F.C.S.

Manufacturers, RICHARD EVANS & CO., Wrexham, North Wales.



GOLD MEDAL

SODA WATER MACHINERY.



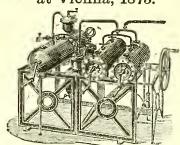




Seven First-class Medals awarded at various International Exhibitions over and above all other Machinery of the kind since 1862.

Soda Water made at a minimum cost by using these Machines.

No Steam Power wanted. Entire Saving of Coals. Half the usual Labour. Saves Breakage of Bottles. Simple in Construction.



TRADE MARK.
Generator and Bottling Cylinders.

Agents for Lamont's Patent Bottles, and Vaass & Littman's Ice Making Machines,

Sole Agents for Galloway's "Excelsior" Soda Water Machine, with Steam Engine combined, and "Universal" Double Pump Machine, Guaranteed to Make 40,000 Bottles per Day; also all other Specialties made by this celebrated House.



Cabinet Machine,

Cost of Machines Saved in one Season in Broken Bottles alone.

The undersigned are the only Manufacturers in Europe of the Improved Machines for Making, Bottling, and Drawing on Draught Aerated or Mineral Waters.

These Machines are lined with pure tin, the pipes are of pure tin, and every care is taken to make them as perfect as possible. For convenience, and saving of time and labour, these Machines are not excelled; therefore, for Makers of Soda Water, Lemonade, Ginger Ale, Seltzer, Potass, Vichy, and other Waters, they are invaluable.

Before purchasing send for Catalogue of 104 pages, post free, giving illustrations and prices.

NOTICE.—The Trade and all others are notified that no one has authority from ns to manufacture any of our specialities; and anyone pretending to have such, and manufacturing the same, will be dealt with according to law. All are therefore safe only by dealing with the original Inventors and Manufacturers.

DOWS, CLARK & Co., 46 & 47 Frith Street, Soho, LONDON.

In our New Catalogue, just issued, will be found illustrations and descriptions of the various Machines for Making Aërated Waters and Bottling the same, Marble Machines for the Counter, of various designs and prices, Copper Cylinders and Coolers, Syphons and Fillers, Ice Safes, Silver-plated Counter Draught Tubes, Tumblers, and Silver-plated Holders, Measuring Taps, Ice Cream Freezers, Fruit Juices, Extracts for flavouring, and Fruit Syrups, for Export or otherwise. Patent Clasps for Bottles, Pressure Gauges, the Cabinet Machine for Clubs, Private Families, Messes, &c. Mineral Waters for Export. Bottles, Corks, Ginger Ale Extract, Gum Extract, for producing foam, Cider Extract, &c., &c.

Lime Juice Cordial and Syrup of the very finest quality.

G. COLE,

MANUFACTURER OF BOXES FOR CODD'S PATENT BOTTLES,

ALL KINDS OF PACKING CASES

FOR THE SODA WATER TRADE.

N.B.-Orders executed with dispatch, and on the most reasonable terms.

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SODA WATER AND LEMONADE MACHINE,

TO MAKE ALL THE AERATED DRINKS.

WITH RECIPES AND INSTRUCTIONS FOR WORKING.

A Machine, with Dial and Water Gauges, to make 300 dozen per day ... £30 0 0 Ditto ditto ditto 1,000 ditto £40 0 0 Engine and Boiler to drive same £30 0 0

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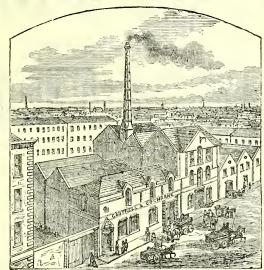
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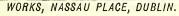
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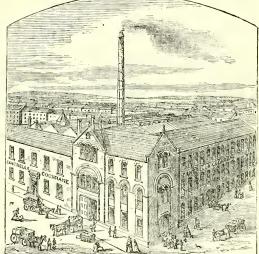
ORIGINAL MAKERS OF THE JUSTLY CELEBRATED

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ALL OUR DRINKS ARE NON ALCOHOLIC.







WORKS, CROMAC BUILDING, BELFAST.

MAKERS BY APPOINTMENT TO HIS EXCELLENCY THE LORD LIEUTENANT OF IRELAND.

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CONTRACTORS FOR THE Anchor Steam Ship Company. Montreal Steam Ship Company. Pacific Steam Ship Company.

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AROMATIC GINGER ALE.

Kali, or Potass Water. Soda Water. Seltzer Water. Lithia Water. Lemonade. Summer Beverage. Lime Juice. Lime Juice Syrup. Aerated Sarsaparilla. ,, Dandelion. ,, Quinine. Carrara Water.

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Will Exhibit in Full and Complete Action their

SODA WATER MACHINERY,

For which they were Awarded at Paris

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MONDOLLOT'S PATENT

Soda Water Machinery,

Continuous System without Gazometer.

GOLD MEDAL PARIS EXHIBITION,

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BY ROYAL LETTERS PATENT,

The Best, Cheapest, and Cleanest Stoppers before the Trade.

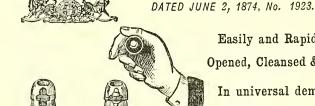
In extensive use.

No Rubber ring that can be taken out, or come out and get detached from the Bottle.

Great Saving effected.

No Marbles.

All Corks, Wires, String, and Skilled Labour super-



Easily and Rapidly Filled, Opened, Cleansed & Washed.

In universal demand.

No Small Chamber or Contractions in the Neck to Prevent Thorough Washing, &c.

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Perfectly Fitting Stoppers.

No Leakage.

BARRETT & ELERS' FILLING MACHINES AND SYRUP PUMP COMBINED have been proved to be the Best and Cheapest in the market, of which now upwards of 1,000 have been sold.

Should the Bottles break, the Stoppers may be newly fitted up and used again in fresh Bottles, thereby being a great saving and advantage over some other Patents. NOTICE.-IMPORTANT

BOURTON,

SMALL STEAM ENGINES

(Economical in Fuel and in First Cost).

These small Engines are specially adapted for driving Soda Water Machinery wherever a moderate amount of cheap power is required. They combine simplicity, compactness, and great strength, are easily managed, occupy very little space, and require no fixing.

They are available at any time, as steam can be got up in half an hour from cold water.

They require no fixing, being erected on a Cast-Iron Water Tank Foundation.

They are simple in construction, and, having as few working parts as possible, are not likely to get out of repair.

They can be driven by a boy. Can be made to burn GAS instead of Coal.

Nominat horse power	1	11/2	2	3	4	5	6	8	10
Engine and Boiler combined£ Engine and Boiler on three	39	47	55	70	88	100	115	135	157
Wheels, with Handle£	41	49	57	75	95	110	125	145	167

ALL SIZES IN STOCK—DELIVERED FREE TO ANY STATION Thustrated Catalogues with full particulars on application.



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WATER. NATURAL MINERAL

SPARKLING.

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"The Beau Ideal of Table Water."-LONDON FIGARO.

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ABSOLUTELY PURE.

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"Highly recommended."-NAVAL AND MILITARY GAZETTE.

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"Develops the bouquet of the more delicate wines, which are deteriorated by admixture with most mineral waters."-John Harley, M.D.

PRICE.—50 large Bottles, 25s.; 100 small Bottles, 40s. Delivered free within four miles radius of Charing Cross. Smaller quantities can be obtained from all Chemists and Grocers. Patent Corks may be had, by which a great saving is obtained. For detailed Price Lists apply to Head Office of the WILHELMS QUELLE,

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LONDON, 1862.

LONDON, 1873-74.

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And all accessories connected with the business.



HANDSOME COUNTER FOUNTAINS.

For dispensing Iced Fruit Drinks.



Sole Agents for Codd's Patent Globe-Stoppered Soda Water Bottles. In use by over 500 established Soda Water Makers in England alone.

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SYPHON, 2s. each in quantities.

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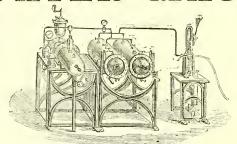
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WATER MACHINERY.





DAVENPORT'S NOZZLE AND STOPPER is the best Patent for utilising old Bottles, and converting them into Patents. No Corks or Wire, and saving entire cost in one season. The New Nickel-plated Nozzle makes this the most attractive Patent in use. Trial allowed. Prices lowered. Send for Samples. New Bottles ready fitted for use now supplied.

Catalogues of Soda-Water Machines, Ice-Making Machines, Engines, Boilers, Copper Cylinders, Syphons, Seltzogenes, Filters, &c., and all accessories to the Soda-Water Trade.

AGENTS FOR HAYWARD TYLER & CO.'S SODA-WATER MACHINERY.

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CO., Soda-Water Machinists and General Machinery Agents, 99N HIGH HOLBORN, LONDON,

(GUARANTEED PURE AND FREE FROM CAPSICUM.)

Trade Price, 5s. per lb.

This highly concentrated Essence has the purest Jamaica Ginger flavour and aroma, is highly adapted for the manufacture of Aërated Waters, and for all dietetic, medicinal, and pharmaceutical purposes. THE COST of this Essence in the manufacture of Ginger Beer, &c., is a little under $2\frac{3}{4}d$, per dozen bottles. Dose 10 or 15 drops to half-a-teaspoonful in water.

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Trade Price, 5s. 6d. per lb.

This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the manufacture of Ginger Beer, Wines, &c., to which it imparts with the GINGER a PECULIARLY FINE FRUITY FLAVOUR and AROMA. THE COST of this Essence in the manufacture of Ginger Beer, &c., is a little under 3d. per dozen bottles.

Directions for the use of this and the preceding Essence.

For GINGER BEER, CORDIALS, &c., 8 fluid ounces will be required to make inclusively one gallon of Syrup, or 1 in 20. For WINES, one Pint of Essence will flavour 5 gallons, or 1 in 40.

ESSENCE COMPOUND FORTIFIED .

Specially adapted for the Manufacture of

JINGER

Trade Price, 5s. 6d. per lb.

THIS ESSENCE, besides its special adaptation as above, is strongly recommended for the manufacture of GINGER BEER and other kinds of Aërated Beverages, especially in those cases where it is desired to impart to those drinks at a SMALL COST the FULLEST amount of PUNGENCY with the FINE GINGER AROMA and FRUITY FLAVOURS of the LAST-MENTIONED ESSENCE.

DIRECTIONS.—For the manufacture of GINGER ALE, One Pint will be required inclusively for four gallons of Syrup, or five fluid ounces in each gallon. For GINGER BEER or GINGERADE One Pint in five gallons Syrup, or four fluid ounces in each gallon. THE COST of this Essence in the manufacture of GINGER ALE is 13d. per dozen bottles, and for GINGER BEER or GINGERADE a little under $1\frac{1}{2}d$. per dozen bottles.

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"It is a pure, elegant preparation, and is free from resinous matter. Ginger Beer made with it is clear and transparent, has the aroma and flavour of the Ginger, and is very pleasing to the palate."—Medical Times and Gazette, London, March 16th, 1878.

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"Contains the Essential Oil or Aromatic constituent of the root, has the Aroma of Ginger without the unpleasant taste of the resin, and is specially adapted for flavouring Ginger Beer,"—Pharmaceutical Journal, London, December, 1877.

"It is really necessary that a superior Ginger Beer should be introduced to the public, and in Mr. Hay's Ginger Essence we find the very ingredient to bring about such a desideratum."—Mineral Water Trade Recorder, London, May 1st, 1878.

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Agents-Messrs. HEARON, SQUIRE & FRANCIS, Wholesale Druggists, 5 Coleman St., London, E.C.

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DOMESTIC FILTER, NO. 27.



Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap.

All sizes of this pattern can now be had with Patent Ice Compartment, which renders this Filter the most perfect of Refrigerators.

			0	TYPE A T
		PRI	CES.	With Ice Compartment.
No. 0, c	apacity	l gall.	10s. 6d.	
No. A,	,,,	1 ,,	14s. 6d.	17s. 6d.
No. B,	"	2 ,,	21s. 0d.	25s. 0d.
No. C,	12	4 ,,	32s. 0d.	36s. 0d.
No. D,	22	6 ,,	42s. 0d.	48s. 0d.
No. E,	11	8,,	52s. 0d.	60s. 0d.
No. F,	,, I	2 ,,	70s. 0d.	80s. 0d.

UNIQUE STONEWARE FILTER, NO. 28.

No House should be considered as thoroughly furnished until it is supplied with one or more good Filters.

No Water should be used for Drinking or Cooking without being Filtered.

This Filter is made of a New Ornamental Stoneware, similar in shape to the Domestic Filter, and of two-gallon capacity. When arranged in a Hall or Couservatory, side by side with evergreens, the effect is very pleasing.

Price, with Silver-plated Tap, 30s.



MAIN SUPPLY FILTER,

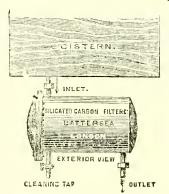
SPECIALLY ADAPTED FOR Mansions, Schools, Hospitals, Public Institutions, Breweries, Distilleries, Soda Water Manufactories, Dye Works,

And all other Establishments where large quantities of

PURE WATER

Are required.

The ordinary Sizes kept in Stock are as follows:-A, $\frac{1}{2}$ -inch or $\frac{3}{4}$ -inch pipe £6 6s. B, 1-inch pipe £9 9s. C, 11-inch, 11-inch pipe £15 15s. D, 2-inch pipe £26 bs.



This Filter is extremely simple in construction, and can be either connected with a Cistern or attached to the Main Service Pipe. It requires no attention beyond an occasional opening of the Cleansing Tap, and will deliver a supply of purified water at a rate of 50 to 1,000 gallons per hour, according to size.

Special Contracts entered into for Large Works, Institutions, &c., &c.,

FOR PURIFYING THE WHOLE OF THE WATER SUPPLY OF A BUILDING BEFORE USE. Ensuring Rapid and Perfect Filtration, at either High or Low Pressure.

FILTERS FOR SHIP'S CABIN USE,



No. 26.

As supplied to the Admiralty, and used on board the first Steam Life-Ship "Peronelle." Made in hard Stoneware, strongly cased in Wicker, and fitted with Silver-plated Tap.

1/2-	gallon	capacity					10	$\frac{d}{6}$
1	19	,,	••	• •	• •		15	0
2	99	29	••	• •	• •		22	0
4	23	99	• •	• •		• •	36	0
6	,,	"	• •	• •		• •	48	0
8	29	22	••	• •	• •	• •	57	6
10	>>	"	• •	••	• •	• •	68	0
			_					

These Filters are invaluable on board ship, furnishing a supply of pure and wholesome water during a long voyage.

DOUBLE-ACTION NEW

No. 35.

In Cream-coloured Stoneware.

This Filter is specially adapted for rain water, and This Filter is specially adapted for rain water, and also for very hard or muddy water. The second medium being protected by a slab, no water can possibly reach it until after passing through the first medium. By this means a double process of fitration is effected, whilst at the same time the impurities contained in the water are deposited on the slab, and may be easily cleansed away with a sponge.

Prices complete—A, 2 gallons, 30s.;

B, 5 gallons, 50s.

Extra Blocks supplied for these Filters at 10s. 6d. and 15s, each.



REFRIGERATIVE CANVAS FILTERS, No. 32,

For hanging in Verandahs, Tents, or Huts, and also for travelling in hot climates. Prices—A, 21s.; B, 25s. A LIBERAL DISCOUNT TO THE TRADE.

SILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON.

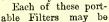
PARIS: 131 Boulevard Sebastopol. NEW YORK: 194 William Street (H. R. Mensing, Agent). HAMBURG: 9 Deichstrasse (Joseph Schmutzer & Co., Agents).

SILICATED CARBON FILTERS.

SYPHON FILTERS FOR TRAVELLERS.

By means of these Filters pure and perfectly wholesome water may be drunk from any pond or stream by simply immersing the Filter therein and drawing the water through the tube by suction.

Each of these port-





No. 20.

used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side below the Filter. When once set in operation their action is con-

tinuous.

They are readily cleaned from sedimentary matter by merely blowing through the tube, and brushing the surface of the

blowing through the tace, and stassing		
filtering medium.		
A.—Pocket Filter, $2\frac{1}{2}$ inches diameter, in porcelain, with glass		d.
mouthpiece, in decorated metal box	2	6
B.—Ditto, 3½ inches diameter, in best stoneware		0
Ditto, ,, with silver-plated tap		0
C.—Emigrant's, 5 inches diameter, with silver-plated tap	12	0
GPocket Filter, for carrying over shoulder, as supplied to the		
Forces in Abyssinia and in Zululand, and to the Ashantee		
Expedition	3	6
H Ditto, nickel-plated, designed by Major Fraser, R.E., and specially		
recommended by the Horse Guards for Officers' kits	5	0

TABLE FILTER, NO. 24.

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

PRICES.

O, 2s. 6d.; A, 4s.; B, 5s. 6d. Engraved Vine Pattern-O, 3s. 6d.; A, 5s. 6d.; B, 7s. 6d.

POROUS TERRA COTTA FILTER. NO. 29.

Shape of this Filter as Fig. No. 24. O, 2s. 6d.; A, 4s.; B, 5s. 6d.

SILICATED CARBON BLOCKS.

2in., 1s. 6d.; $2\frac{1}{4}$ in., 2s. 6d.; $2\frac{3}{4}$ in., 3s.; $3\frac{1}{2}$ in., 4s.; $4\frac{3}{4}$ in., 5s. 6d. ea. SPECIAL QUOTATIONS FOR QUANTITIES.

PRIZE FILTER,

This Filter is constructed in the form and colour of an Etruscan Vase, having inside it a movable pan, into which the Silicated Carbon filtering medium is fitted.



PATTERN NO. 23.

The exterior is made of Perous Ware, which acts with remarkable power as a Refrigerator, keeping the water deliciously cool. Capacity, about Two Gallons.

PRICE, WITH SILVER-PLATED TAP, £3 10s.



DINING-ROOM FILTER.

22. No.

MADE IN MARBLED CHINA.

Size A holds about two gallons; size B. five gallons.

PRICES.

- 358. 80s. A, with Ice Compartment ...
 (New Patent.) B, with Ice Compartment 100s. (New Patent.)
- large size (B) is specially adapted for Hotels Refreshment Rooms, Luncheon Bars, &c.

REFRIGERATOR FILTER. NO. 25.

Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates,

AFFORDING A

GOOL DRAUGHT OF PURE WATER.

Price, with Silver-plated Tap .. Ditto, ditto, with Ice Compartment Capacity, Two Gallons.

Specially adapted for Tropical Climates.



PORTABLE FILTER, No. 34, for Travellers at Hotels, Families at the Seaside, Pic-nics, &c. Made in Marbled Porcelain, with Cover. Can be placed in a jug, decanter, or other vessel. Price 7s. 6d. each.

SILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON.

OZOLKIEJRILL.

Grand Medal, MOSCOW, 1872.



Grand Medal, VIENNA, 1873.

MADE TO ALL SIZES.

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At the CENTENNIAL PHILADELPHIA EXHIBITION the Highest Honours

WERE AWARDED TO J. C. & J. F.E.D FOR THEIR EXHIBIT OF

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PATENTEES AND ORIGINAL MANUFACTURERS OF SELF-FITTING CANDLES.

Made in all Sizes. | Made in all Colours. | Burn to the End. | Require no Scraping. | Made in all Qualities. | Fit all Sockets. | Require no Cutting. | Are Safe, Economical, Cleanly.

CANDLES SPECIALLY ADAPTED FOR EXPORTATION TO HOT CLIMATES.

OZOKERIT (Patented). In handsome 1-lb. Packets.

These beautiful Candles are made in ALL SIZES, and from their great hardness and non-liability to bend when exposed to a high temperature, are well adapted for Ball Rooms and Tropical Climates. They possess the highest illuminating power of all descriptions of Candles.



UNITED SERVICE SOAP,

Of highly emollient properties, and singular durability of Perfume.

WHOLESALE DETAILED PRICE LISTS OF

J. C. & J. FIELD, Patent Candle Works, LAMBETH MARSH, LONDON, S.E.



Tablets 3 to lb. |

In $\frac{1}{4}$ lb. tins; also

Foil, 2 oz., 1 cz.

HANDSOME CHEMIST'S SHOP FITTED COMPLETE

WITH ALL NEW GOODS,

INCLUDING GLASS SHOW CASES.
GOLD-LABELLED SHOP BOTTLES, JARS, &c.,

For £75.

Retail and Dispensing Counters, Shop Drawers, Window Enclosures, Wall and Counter Bent, Flat, and Upright Show Cases, Dispensing Screens, Show and Soda-water Stands, Sponge and Cigar Cases, Tea and Coffee Bins, Window Carboys, Specie Jars, Labelled Shop Bottles and Jars, Store Bottles and Boxes, Tea, Coffee, and Sugar Mills, Tea, Coffee, and Store Canisters, Oil and Treacle Cisterns, and every description of new and secondhand Shop Fixtures, Office Furniture, and Utensils required by the various Home and Colonial Trades. Three extra Show Rooms have just been added, to which an inspection is invited.

LLOYD RAYNER,

WHOLESALE AND EXPORT MANUFACTURER OF

MEDICAL AND GENERAL SHOP FITTINGS, EXHIBITION AND COUNTER SHOW CASES, SHOP FRONT BUILDER,

FIXTURE DEALER, AND MEDICAL LABELLER.

SHOW ROOMS AND OFFICES:

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CHOICE PACKED TOBACCOS.

Best Birdseye, in $\frac{1}{4}$ lb. tins; also $\frac{1}{4}$ lb., $\frac{1}{16}$ lb. packets. Superfine Birdseye, in $\frac{1}{4}$ lb. tins; also $\frac{1}{4}$ lb., $\frac{1}{16}$ lb. $\frac{1}{16}$ lb., $\frac{1}{16}$ lb. $\frac{1}{16}$ lb. Imperial Birdseye, Foil, 2 oz., 1 oz.

"Yellow Honey from Down South."

This Tobacco is the most highly esteemed in the States.

'Virgin State," Selected from the In \(\frac{1}{4}\) lb. tins; also Finest Virginia Leaf.

In \(\frac{1}{4}\) lb. tins; also Foil, 2 oz., 1 oz.

Superfine Oriental Returns, In 1 lb. tins; also A Mild Smoking Tobacco. Foil, 2 cz., 1 cz.

Fine Turkey Returns, Foil, 2 oz., 1 oz.

PACKED SHAG.

 Superfine Shag
 ...
 ...
 $\frac{1}{4}$ lb., $\frac{1}{8}$ lb., $\frac{1}{16}$ lb.

 Fine Shag
 ...
 ...
 $\frac{1}{4}$ lb., $\frac{1}{8}$ lb., $\frac{1}{16}$ lb.

 Fine Ragg
 ...
 ...
 $\frac{1}{4}$ lb., $\frac{1}{8}$ lb., $\frac{1}{16}$ lb., $\frac{1}{16}$ lb.

 Signal Shag
 ...
 ...
 $\frac{1}{8}$ lb., $\frac{1}{16}$ lb., $\frac{1}{32}$ lb.

 Cood Shag
 ...
 ...
 $\frac{1}{8}$ lb., $\frac{1}{16}$ lb., $\frac{1}{32}$ lb.

 Cood Shag
 ...
 ...
 $\frac{1}{8}$ lb., $\frac{1}{16}$ lb., $\frac{1}{32}$ lb.

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SALT," NO'S

"FRUIT SALINE," OR "FRUIT POWDER."

ENO V. STEPHENS IN THE COURT OF CHANCERY.

Shorthand Writer's Notes of Vice-Chancellor Bacon's Summing-up and Judgment.

Sir HENRY JACKSON, Q.C., on proceeding to sum up in detail on the evidence and arguments in the ease, was stopped by the VICE-CHANCELLOR in the following words:

Sir Henry Jackson, I do not think I ought to trouble you. The case has heen discussed at very great length. I confess somewhat to my astonishment when Mr. Hemming declined to adopt the evidence as it was hefore the Court of Appeal, and put the Plaintiff to prove by the same evidence the same facts which had been proved hefore, I was under the impression that he meant to call witnesses on his own behalf. If that had heen, as it probably may have been his intention at that time, there would have been a reason perhaps for repeating over again at very great length and considerable expense, of course to somebody, the evidence upon which the Court of Appeal had acted—I say nothing about what was done in this Court, but the Court of Appeal bad acted upon that evidence. The case, however, concludes, and no evidence whatever is adduced by the Defendant—not even his own statement in his Defence is verified by his own affidavit. What is to be done with a case like that? The whole principle of the case, was decided upon the first oceasion. The Court of Appeal hought it right to adopt, not to extend the fujinction further than the then present exigency of the occasion required. Not one word of the judgment of the Court of Appeal shows that there should be any restriction, or that there should be any restriction when the case came on for hearing. Now it comes on for hearing upon precisely the same evidence, and the evidence, among other things, is, that in the circular which accompanies this bottle of Salt, the words to which the Plaintiff particularly objects are repeated by the Defendant, and repeated by means of copying the Plaintiff's circular. Mr. Giffard says nobody buying the bottle would think of looking at the circular, for it is enclosed in the wrapper, and not even visible to the eye. But the case is one in which the Plaintiff complains of the general sin But the case is one in which the Plaintiff complains of the general similarity and the general appearance of the names which are used by the Defendant,

and the general appearance of the names which are used by the Defendant, and if a purchaser entertained any doubt, if he was puzzled for a moment between 'Vinous' or 'Vinous,' and Eno's—the sounds being, in one mode of prounnciation, very much alike—if he opened the wrapper and read the circular he would say, My doubts are removed; this is what I want—I want Frnit Saline, and here it is—the circular says it is 'Frnit Saline.' The Defendant in his statement at the end of the fourth paragraph says he has not 'at any time since the month of Angust, 1877, used the words Frnit Saline, or Frnit Powder, in any label or advertisement or otherwise in connection with the sale of the said preparation.' Under the old system if a defendant had put in his answer, as he must, upon oath, he might perhaps have read that passage and said "the Plaintiff's allegation in that respect is denied.' The Defence is not put in on oath and the Defendant declines to pledge his oath to that fact. But it does not rest there; for the evidence is clear and conclusive that after the month of August, 1877, when the Plaintiff, not without some degree of forbearance, as it seems to me, was content to take the Defendant's word that he would not repeat that offence which the Plaintiff complained way doing him that there; for the evidence is clear and conclusive that after the month of August, 1877, when the Plaintiff, not without some degree of forbearance, as it seems to me, was content to take the Defendant's word that he would not repeat that offence which the Plaintiff complained was doing him that injury which he thought he was suffering, he did, in spite of his promise, repeat that which the Plaintiff called an offence and believed to be an injury to him. The case comes to a hearing, the Defendant insists upon the Plaintiff proving his case. At the Defendant's instance the Plaintiff has proved his case, and, among other things, has proved the utter false-hood of that Defence which is set up in the paragraph which I have read. The matter, therefore, is wholly without doubt, without defence, without excuse of any kind that I can perceive, hecause, when I am told that I must consider what the intention of the parties was, and when I am told, moreover, that there is no evidence that anyboly has heen deceived, and the Defendant in his defence says nohody has heen deceived, but intention to deceive is not contradicted. That is what the Plaintiff imputes to him; and that is what, I think, the Plaintiff establisbes not only from the simplicity of the sign, but from the fact that, when the complaint was first made in August, 1877, they were words which the Defendant admitted he had no right to use. For what reason? Because they were calculated to deceive—calculated to represent the Defendant's goods as those which the Plaintiff was selling under the title which he had adopted.

Upon the general case, therefore, in my opinion, the matter is beyond all donbt. It is proved that the use of the word "Fruit" with other substantines, "Saline" and "Salt," and so on, has been made by the Defendant since the time when he promised not to make it, when he admitted it was unlawful, and which I bave no doubt whatever was wholly unlawful. It is said that he endeavoured to keep his promise by pasting something over the word "Fruit." Well,

great differences in their external appearance, to decide that they are not calculated to deceive. To that word deceive I have no right to criticise or quarrel with; it is used in the Aet of Parliament, and if I were to give one sense to it, it is plainly in my judgment calculated by the Defendant, uneant and intended by him, to deceive any person who is not vigilant enough either in eye or in ear to detect at once the difference between Vinous and Eno's, and the difference between Fruit Salt and any other salt, Eno's title being plainly upon his Trade Mark, Eno's Fruit Salt.

It is not, as I have said, by sight; it is not by the use of a microscope; it is hy any other means of detecting more or less of resemblance that you can decide a question which the statute contemplates hy using the words that I have referred to. But it is whether the Registrar, whose office it is to register, is satisfied before he performs his function by registering the mark, that the applicant's mark does so resemble as to he calculated to deceive. Can any living man doubt that it is not only calculated—that is intended—but that it is also calculated—that is to say, meant and contrived for the purpose of deceiving—else why does he do it? The world is wide, as has been said in the Judgment referred to, and all things in the animate and inanimate world are open to the Defendant to make a device which shall distinguish his goods from those of any other person. But the Plaintiff having appropriated to himself, and enjoyed for years a device in which the principal characteristic consists of a bunch of grapes, with a Latin motto, and the specific description which relates to Eno's Fruit Salt, the Defendant proposes to register a design in which the principal device is the stem of a vine with a bunch of grapes and some leaves, and a Latin motto around it, and it is to be called "Vinous Salt." If there was nothing in the case that the contrast of these two things, it might, perhaps, to some persons, who trusted only to their cyes, he said the

say it would be impossible for a man with eyes, or with one eye, in his head to use mistake the device in that case for the device which the Plaintiff desired there to use. Mr. HEMMING:—Your Lordship will pardon me, I was only quoting the Master of the Rolls.

The VICE-CHANCELLOR:—I know, and have also clearly in my mind the Master of the Rolls and what he did notonly in the "Dog and Porridge Porridge Porridge The interest of the Rolls' indement takes a wide and or the school of the Rolls' indement takes a wide and or the research of the Rolls' indement takes as wide and or the research of the Rolls' indement takes as wide and or converting and corroborating that view, but what he said was "an houset man who wants to mark his goods never thinks of taking the device partly or wholly which some other tradesman is employing for the purpose of marking his goods," and that I take to be the true principle of the case.

And, taking all these things together, the Plaintiff's evidence in the first place, the total absence of evidence or statement on the part of the Defendant, excepting the total absence of evidence or statement on the part of the Defendant, excepting the total absence of evidence or statement on the part of the Defendant, excepting the understand the part of the Defendant excepting the understand the part of the Defendant, excepting the understand the part of the Defendant excepting the understand the part of the Defendant is not except that he admitted he head done wrong in using the word "Fruit," I am asked to say that there is no such resemblance hetween those two men, are calculated to mislead in reference to the commodities tendered in the shape in which they are sent into the world. I think I should be wasting time if I observed further upon it. I is to me clearly manifest not only that there is sufficient resemblance to accurately and introdomatrary intention. I cannot come to a contrary conclusion than that the importance of the part of

to say that the Detendant is not entitled to register the device of a branch of a vines with a hunch of grapes upon it, and a Latiu motto on it and the name "Vinous Salt." There is an end of it therefore.

Sir HENRY JACKSON:—Well, my Lord, of course I must have the costs, The VICE-CHANCELLOR:—You must have the costs of hoth.

Sir HENRY JACKSON:—And I think I must ask for the Sborthand Notes of the evidence yesterday. That your Lordship has given on occasions. It was impossible for us to avoid incurring that expense, although it has proved to be absolutely useless. Your Lordship has given it on several occasions, and I must ask your Lordship for the costs of taking the evidence.

Mr. HEMMING:—I do not think your Lordship is ever in the habit of giving costs of that kind, unless there is some special reason for taking the notes. I do not know whether my friend the property of the property of the property of the state of a shorthand note of the evidence under such circumstances. It is not taken by arrangement. It is not in every case where there is an arrangement, between the there is an arrangement, it is not taken by arrangement. It is not in every case either party may require a shorthand writer to he employed. We know that the rule is the other way.

The VICE-CHANCELLOR:—So far from laying down any rule, my notion of this particular subject of the costs incurred by the shorthand writer is that it ought not to he done without a good and sufficient reason for it. Now the reason is to me perfectly apparent and conclusive. Sir Henry Jackson proposed to treat the evidence as it had been used in the Court of Appeal, as heing put in here. Mr. flemming objected to that, and insisted upon the witnesses heing examined. In my opinion it hecame indisensably necessary that a record of that evidence should he kept, and that could only he done according to the present practice of this Court by the employment of a shorthand writer, and having done it without reason as I thought; and having done it without reason as I thought;

no transcript taken

no transcript taken.

Sir HENRY JACKSON:—I have the transcript here, and I was prepared to sum up this morning.

Mr. HEMMING:—There was no occasion for it.

Sir HENRY JACKSON:—I do not want of course the costs of any of the speeches: I merely take the transcript of the shorthand notes of the evidence.

The VICE-CHANCELLOR:—I think that must he so, hecause for anything I know this day week the Lords Justices will have them in their hands.

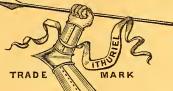
Mr. HEMMING:—Then would he time to ask for it.

Sir HENRY JACKSON:—MY Lord has decided.

Sir HENRY JACKSON :- My Lord has decided,

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